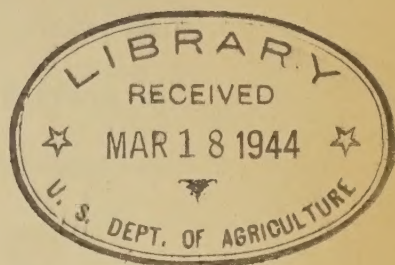


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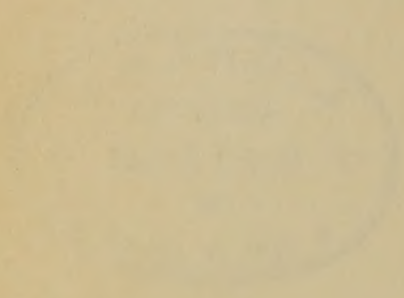
Edited by Claribel R. Barnett,
Librarian, United States Department of Agriculture

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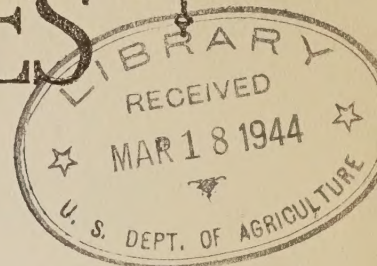
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TWO HORTICULTURAL HISTORIES

History of the Massachusetts Horticultural Society. By Albert Emerson Benson. 553 p. il. Norwood, Mass., Printed for the Society by The Plimpton Press, 1929.

The author states that this history of the Massachusetts Horticultural Society "was written with the intention of supplying to members and others interested as brief a review of the Society's hundred years as was consistent with reasonable thoroughness. In 1880, Robert Manning's history of the first half-century gave a complete and accurate account up to that time, and his method of treatment could have been continued if only the events since then were to have been included; but inasmuch as a complete history seems desirable, and an arrangement seemed possible by which the somewhat monotonous succession of exhibitions, lectures and transactions might be made more readable, the present writer has himself examined the sources - almost entirely the Society's published Transactions and for early days the New England Farmer - and has attempted to bring the facts and events of the whole century into the proportions decreed by five or six hundred pages...Only the perusal of these volumes representing, say, a decade, can show how intimately every department of the Society influenced every other, how events shaped policies, policies events, and above all how personalities guided and were guided by both."

A History of the Pennsylvania Horticultural Society, 1827-1927. By James Boyd, 20th President. 509 p. il. Philadelphia, Printed for the Society by Edward Stern & Company, 1930.

"The information contained in the History has been obtained from the minutes of the Society and from various contemporaneous publications... The History of the Society is preceded by an introductory section covering horticultural events in and around Pennsylvania from 1681 to 1827. The History itself is divided into seven periods of unequal length. Each period covers a certain phase or condition, as, for instance, the formation and establishment of the Society, the great interest in pomology, the introduction of new plants, the period of decline or lack of interest due to various causes, the period of strong commercial influence and the corresponding lack of interest by amateurs, the period when amateurs greatly predominated and commercial interests held a secondary place. The preface of each period gives a concise review of the events of that time." In addition to the general index the volume has a horticultural index. Portraits and biographies of all the presidents of the Society are included. There are also portraits of several of the treasurers and secretaries.

RURAL LIBRARY EXTENSION INSTITUTE

Alice S. Tyler, until recently dean of the Library School of Western Reserve University and formerly secretary of the Iowa Library Commission, has accepted the directorship of the Rural Library Extension Institute and will conduct the lectures and discussion groups in state library extension. The course in county library administration will be led by Harriet C. Long, of the Wisconsin Free Library Commission, author of "County Library Service". Miss Long has had experience in California and Ohio county libraries and in county library campaigns in Wisconsin.

The Institute, which is being planned by the A. L. A. Committee on Library Extension, will be in session June 30 to July 18 at the College of Agriculture of the University of Wisconsin at Madison, in connection with the annual Rural Leadership Summer School.

In addition to the two library courses, a course in Rural Sociology by Prof. J. H. Kolb, director of the Rural Leadership School, will be required and one more pertaining to rural life may be elected.

Since the Institute courses are for advanced students, the informal discussion method rather than the lecture plan will be used. Projects will be initiated and carried through as far as possible.

Prompt registration is required, as enrollment is limited. Applicants with library extension experience or assurance of extension work will be given preference. Inquiries and applications should be addressed to Julia Wright Merrill, American Library Association, 520 North Michigan Avenue, Chicago. (From Minn. Dept. of Education, Library Notes and News, v. 9, no. 9, March, 1930)

THE RURAL COMMUNITY AS A UNIT FOR RURAL ADMINISTRATION

"The recognition of the rural community as a unit for rural administration has been slowly growing during the past decade... For whatever other purposes the rural community may become an administrative unit, it has very definite advantages over the township or county as the primary unit of school administration. Furthermore, although much more evidence on the matter is desirable before we can speak with any authority, it seems probable that the rural high school is to become the central institution in rural organization and that the community which forms its natural constituency will tend to become the best unit for other forms of rural administration." (Dwight Sanderson)

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"The Library of the Open Road" is the title of a pamphlet about county libraries which has been published recently by the New York State College of Agriculture, Ithaca, as Cornell Extension Bulletin no. 188. It was prepared by Ralph A. Felton and Marjorie Beal, in cooperation with the Library Extension Division of the New York State Department of Education. The pamphlet, which is well illustrated, deals with the county library situation in New York State in particular, but includes charts and information concerning other states as well.

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CHRONOLOGICAL LIST OF EARLY AGRICULTURAL WORKS IN THE LIBRARY
OF THE MINISTRY OF AGRICULTURE AND FISHERIES

The heading given above is the title of a pamphlet of 43 pages by G. E. Fussell which has been issued this year by the Ministry of Agriculture and Fisheries of Great Britain. It contains the following interesting foreword:

"Then for any purpose one sets out to read agricultural books of early date it is natural that the British Museum Library should be regarded as the obvious place in which the books may be most readily found. It is, however, felt that its resources should be used only when it is necessary to consult books inaccessible in other specialized or general libraries.

"For those who require agricultural works there are at least three libraries which can be used. The Library of the Royal Agricultural Society of England, at Bedford Square, contains a large collection of early farming books, and a unique collection of 18th century pamphlets on the various subjects relating to agriculture which were then so widely discussed. The Rothamsted Experimental Station, Harpenden, also possesses a great deal of material for the students of agricultural development in this country, and this has been catalogued by Miss Mary S. Aslin.

"A third Library, that of the Ministry, also contains a collection of early agricultural works which can be consulted. These books, however, are valuable, and they are not available for loan as are the modern works in the Ministry's possession. This Library has recently been enriched by the presentation of 'The Cowan Memorial Library', a unique collection of books relating to bees and allied interests, the generous gift of the British Bee-Keepers' Association. There is, of course, a card catalogue of the books in the Library, but no catalogue has been published. With the idea of making public the facilities for research which are available in the Ministry's Library, the appended Catalogue has been prepared by Mr. G. E. Fussell, one of the Ministry's officers. It was, however, completed in November, 1929, and since acquisitions by purchase and by gift accrue, it would be well for interested persons, when using it, to consult the list of additions published from time to time in the Ministry's Journal.

"It may be added, perhaps, that the attached Catalogue will show that the Ministry's collection of early agricultural books does not pretend to be complete, and that many of the works are only second, third or later editions. These are defects which can only be remedied in such a comprehensive and universal library as the national collection in Bloomsbury." The catalogue can be obtained from H. M. Stationery Office, London. Price 2 shillings.

EIGHTEENTH CENTURY AGRICULTURAL DICTIONARIES

"Eighteenth Century Agricultural Dictionaries", by G. E. Fussell, is the title of an article in the Bulletin of the Institute of Historical Research, London, vol. 7, no. 21, Feb. 1930, p. 144-148, which is of particular interest as a contribution to agricultural bibliography. The earliest agricultural dictionary in English is "Dictionarium Rusticum, Urbanicum, et Botanicum: or, a dictionary of husbandry, gardening, trade, commerce, and all sorts of country affairs", which was published in 1704.

NEW BUILDING FOR THE UNIVERSITY OF TENNESSEE LIBRARY

Work is being started on a new building for the University of Tennessee Library. It is the first unit of a building which will be much larger when completed, probably four times as large. The first unit is to cost \$300,000. It is modified Gothic in style of architecture to harmonize with other new buildings on the campus and will be constructed of concrete, with brick facing and stone trimmings. Owing to the shape and location of the site, the main reading room will extend across the east end with entrance at the side of the building and delivery space and stacks extending toward the west. Future units will be built on the north and south of this central delivery space and together with the stacks may be extended to the western limits of the site. The side entrance can be balanced with a similar entrance opposite, as the building is extended. The building has been designed by Barber & McMurry, local architects, with Mr. Grant C. Miller as consulting architect.

PUBLICATION OF LISTS OF THESES

"At the meeting of the Agricultural Libraries Section in May, 1929, it was suggested that the agricultural college libraries submit a list of their theses to the U. S. Department of Agriculture Library. If every library would do this, the titles could be arranged and published in Agricultural Library Notes once a year. The value of such a list is readily seen. To make this material available, we might go further and let the libraries check the titles of interest to them and the theses desired by a sufficient number could be mimeographed and distributed at reasonable cost. If any libraries are interested in publishing at least a list of the theses and are willing to submit annually a list from their institutions, it is hoped that they will express their interest in Agricultural Library Notes." (Jas. R. Gullede, Librarian, Mississippi Agric. and Mech. College)

CIRCULATION OF FARM PUBLICATIONS BY STATES AND COUNTIES

The Domestic Commerce Division, Bureau of Foreign and Domestic Commerce, U. S. Department of Commerce, has recently issued a publication entitled "Circulation of Farm Publications by States and Counties". This is a supplement to the "Market Data Handbook of the United States", issued by the Bureau. The statistics contained in the supplement were compiled from the latest circulation statements of publishers of farm publications, as of August 15, 1929, and cover (1) the combined circulation of six national farm journals, and (2) the combined circulation of 36 state, sectional, and class farm papers. The six states having the highest circulation of national farm journals were: 1. Iowa; 2. Ohio; 3. Illinois; 4. Pennsylvania; 5. New York; 6. Minnesota. The six states having the highest circulation of sectional and class farm journals were: 1. Illinois; 2. Texas; 3. Iowa; 4. New York; 5. North Carolina; 6. Wisconsin.

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CATALOGUE OF BEE BOOKS

A descriptive catalogue of a library of bee books, collected and offered for sale by Lt.-Col. H. J. O. Walker, Westholm Mains, Budleigh Salterton, Devon., England, has been printed and distributed. Some idea of the extent of the collection can be gained from the fact that the catalogue contains 144 pages. It is divided into several sections, namely, Books in English, Books in French, Books in German, Books in Italian, Books in Spanish, Books in Dutch, Books in Danish, Norwegian and Swedish, Books in Russian and Bulgarian, and Books in Latin. The following information regarding the collection is taken from the introductory statement:

"The nucleus of this Library was formed by Alfred Neighbour, maker of bee-appliances, and author of 'The Apiary', London, 1865. It was the main source of the Bibliography published in the British Bee Journal in 1877. On Mr. Neighbour's death, in 1890, it was bought by the present owner who has spared no pains in making it a complete record of the gradual advance of bee-keeping throughout the world, both in science and practice. All the items are in good and most of them in excellent condition... Brief descriptions, translations, and biographical notes have been supplied where it seemed desirable, especially in the foreign sections, and an Appendix has been added containing the titles of a few desirable works not included in the library. The entire Catalogue may fairly be termed a Bibliography which, though not complete to date, is the most useful and informative record of bee literature hitherto compiled.... There is no intention of breaking up the library, and the total value thus estimated is a little over £347, say \$1,735. Possible purchasers or their agents wishing to inspect the books should write for an appointment to Colonel Walker, at the above address."

THE GRAY HERBARIUM CARD INDEX

"The Gray Herbarium Card Index" is the title of an article by Prof. B. L. Robinson and Lesley C. Wilcox in the March 7, 1930, issue of "Science", which gives an interesting history of the index. This index of the newly described and renamed plants of America was started in 1894 as a private undertaking by Miss Josephine A. Clark who was at that time Assistant Librarian of the U. S. Department of Agriculture. She carried on the Index for about ten years, until 1903. In the meantime she became Librarian of the Department and her duties had so increased that she desired release from further care of the Index. She therefore, in 1904, "handed it over with its good will and subscription list" to the Gray Herbarium which has carried it on since that time. Issues 1-55 (1894-1912) were printed by H. N. Patterson of Oquawka, Ill. From issue 56 to date the Index has been printed, alphabetized and mailed by the Library Bureau, Cambridge, Mass. Any communications regarding the Index should be addressed to The Bibliographer, Gray Herbarium, Cambridge, Mass.

MISCELLANY

The Southern Planter for Jan. 1, 1930, is of particular interest as it is the 90th anniversary number. It contains many historical articles in regard to the development of the South in the past 90 years.

A series of valuable articles on the "Ten Master Minds of Dairying" appeared in "Dairy Farmer" and "Successful Farming" during 1929. An article was devoted to each of the following: Babcock, De Laval, McCullom, Pasteur, Haecker, Borden, Henry, and Hunziker. The installments are to be published as a book by the Meredith Publishing Co., Des Moines.

The Oklahoma A. & M. College Magazine for December, 1929, includes a number of interesting articles relating to the early history of the college.

The Oregon Voter for Jan. 11, 1930, contains an article entitled "Land Grants to States" which gives data showing Federal cessions to thirteen far-western states.

The Virgil Bimillennium is being celebrated throughout the Western civilized world in various ways during the present year. The Library of Congress is compiling a union catalogue of Virgiliana, the aim of which is to make available to Virgil students everywhere the location of any and every copy of all unusual books by or about Virgil in American libraries. Virgil is of special interest to agricultural librarians as the author of the Georgics, one of the earliest agricultural works.

"Silver Anniversary Cooperative Demonstration Work, 1903-1928. Proceedings of the Anniversary Meeting held at Houston, Texas, February 5th, 6th, and 7th, 1929" is the title of an interesting pamphlet recently issued by the Extension Service of the Agricultural & Mechanical College of Texas.

The 25th anniversary of the Forest Service was celebrated on February 1, 1930. The Forest Service was created February 1, 1905, through the merging of the old Forestry Division of the Department of the Interior with the Bureau of Forestry of the Department of Agriculture.

A "Summary of laws of various states which contain specific provisions relating to contagious or infectious abortion of cattle and Malta fever" has been compiled by Beatrice Hager, Legislative Reference Library, Madison, Wisconsin. It is typewritten and contains 8 pages, and may be borrowed for copying.

"Laws Relating to Agriculture" is the title of a compilation by Elmer A. Lewis, Superintendent, Document Room, House of Representatives. It contains 227 pages and is obtainable from the Superintendent of Documents, Government Printing Office.

MISCELLANY (Cont'd)

The Florida Agricultural Experiment Station Library issued in March a mimeographed list of periodicals currently received by the library. It includes 175 titles. With few exceptions it does not include government or state documents, publications of agricultural experiment stations, or reports of learned scientific societies.

The recent theft of some of its informational bulletins led the New Jersey Agricultural Experiment Station to announce in a press release that its publications are free and there is no need for anyone to break in to get them.

The first appropriation for the State experiment stations under the Hatch Act was in 1888. The total amount available to the stations in that year was \$710,000. Their forces numbered about 400 persons. The corresponding figures for 1928 are an appropriation of over \$15,000,000 and a force of 3000 persons.

The Metropolitan Library has been merged with the Library of Peking, China, taking the name of the National Library of Peking. The new library is to be housed in a new building. An important part of the resources of the library has been devoted to biological literature, especially to that concerning botany and zoology.

Volume I of the Subject Catalogue of the Library of the Royal Empire Society, formerly the Royal Colonial Institute, has recently been issued. An article fully describing the proposed catalogue was contained in vol. 2, no. 11-12 (November-December, 1927) of Agricultural Library Notes, under the heading "Printed Catalogue of the Royal Colonial Institute." Volume I covers the British Empire generally and Africa.

The Fourth World's Poultry Congress will be held at the Crystal Palace, London, England, July 22-30, 1930. The Congress is being organised by the English Ministry of Agriculture and Fisheries, in conjunction with the Department of Agriculture for Scotland and the Ministry of Agriculture for Northern Ireland. World's Poultry Congresses were initiated by the World's Poultry Science Association (until recently the International Association of Poultry Instructors and Investigators). Congresses are held triennially, the first being held in Holland in 1921, the second in Spain in 1924, and the third in Canada in 1927.

The 11th International Veterinary Congress is to meet in London, Aug. 4th to 9th, 1930.

The 4th International Congress for the Improvement of Rural Life will be held at Liege, Belgium, Aug. 7th to 10th, 1930.

MISCELLANY (Cont'd)

In an article on "Materials for Southern Agricultural History", by Kathleen Bruce, in "Agricultural History" for January, 1930, Miss Bruce testifies in the following terms to the value of old files of agricultural periodicals: "The backbone of any agricultural study of Virginia in the first half of the nineteenth century lies in the seven thousand pages more or less of the Farmer's Register and in the Southern Planter, which began to be published the year before the cessation of the Register, and the early volumes of John Skinner's periodical, The American Farmer. Though Edmund Ruffin did not initiate the Register until 1833, his material frequently reaches back to the beginning of the agricultural revolution in Virginia around 1808-1810, and occasionally to the preliminaries of the movement in the eighteenth century."

A campaign to establish an endowment fund of \$3,000,000 to permit the expansion of its cultural and research work has just been launched by the American Library Association. The sum of \$1,000,000 already has been pledged to the project and a second \$1,000,000 is in sight, according to officers of the association, as soon as the public has evidenced its interest by subscribing an equal amount. Among the projects for which the association is seeking funds are extension work among farmers and industrial workers, expansion of its work with children and in the development of school and hospital libraries and work among the foreign-born and among the blind. There are approximately 42,000,000 residents of rural communities who are still without library privileges, the association declared in a statement outlining its projects.

LIBRARY ON TAXATION GIVEN TO THE ARKANSAS COLLEGE OF AGRICULTURE

"A 2000-volume library on taxation and economic subjects has been presented to the department of rural economics and sociology of the University of Arkansas college of agriculture by George Vaughn, for many years prominent in tax and legal affairs of the state, and who is now a faculty member of the University of Arkansas school of law. This reference library of official, semi-official and privately published state and federal reports, and studies on taxation and economic subjects will be used by the department in its tax studies. This material, which will be known as the George Vaughn Tax library, is the result of a 10-year study of economic and tax problems by Professor Vaughn, while he was a member of the state tax commission. The library, consisting of 1,700 pamphlets and reports, 100 bound volumes and 200 documents, includes annual and biennial state tax commission reports of all states covering five to ten years, and in many cases complete files; special tax reports of research commissions and boards of twenty-five states; files of tax periodicals for a period of fifteen years; statistical reports of various states and the United States government, covering taxation, wealth, debt, and income; and sets of graphs, charts and maps dealing with tax burden. Professor Vaughn while serving on the commission cooperated with Dr. C. O. Brannen, head of the department of rural economics and sociology, in his study of the farm tax problem in Arkansas which was published by the college of agriculture two years ago."

AMERICAN BOOKS

The Maintenance of Soil Fertility. By Charles Embree Thorne, Director, Ohio Agricultural Experiment Station, 1887-1920. 332 p. il. New York, Orange Judd Pub. Co., 1930.

Farm Soils. Their Management and Fertilization. By Edmund L. Worthen, Extension Professor of Soil Technology at Cornell University. 1st ed., 2d printing, corrected. 410 p. il. New York, John Wiley & Sons, 1930. (Wiley Farm Series)

"Those concerned with practical farming look at their soil problems from the standpoint of definite farm operations... In this book emphasis is placed on what to do and when to do it." (Preface)

Principles of Soil Technology. By Paul Emerson, Associate Professor of Soils, Iowa State College. 402 p. New York, The Macmillan Co., 1930.

"The writer has aimed to correlate the facts of soil knowledge and present the science from the teaching standpoint in as fundamental a manner as possible... No attempt has been made to give a complete historical or bibliographical review. The references given are selected as key material. Usually these references give a historical review of the literature and a more or less extended bibliography." (Author's preface)

The Major Soil Divisions of the United States. A pedologic-geographic survey. By Louis A. Wolfanger, Economic and Soil Geographer, Columbia University. 150 p. New York, John Wiley & Sons, 1930.

"Soils are of regional as well as local importance, and like land forms, natural vegetation, climate, etc., may be classified into large and comprehensive groups of small number... It is the object of this study to examine the largest of such groups which may be recognized in the United States - the major soil divisions; to set forth their fundamental functional characteristics, and to determine some of their essential and more important geographic relationships." (Author's preface)

Soils and Soil Management. By Charles Ernest Millar, Professor in Soils, Michigan State College of Agriculture and Applied Science. 477 p. il. St. Paul, Minn., Webb Pub. Co., 1929.

Written primarily for the college student but the author also had in mind the needs of the farmer and the needs of the city dweller, wishing information on the care of lawns and gardens.

The Nature and Properties of Soils. A college text of edaphology. By T. Lyttleton Lyon, Professor of Soil Technology, Cornell University, and Harry O. Buckman, Professor of Soil Technology, Cornell University. rev. ed. 428 p. il. New York, The Macmillan Company, 1929. (Agricultural Science Series)

AMERICAN BOOKS (Cont'd)

Growing Tree and Small Fruits. By H. B. Knapp, Director, State Institute of Applied Agriculture, Farmingdale, L. I., and E. C. Auchter, Principal Horticulturist in Charge of Horticultural Crops and Diseases, U. S. Department of Agriculture. 510 p. il. New York, John Wiley & Sons, 1929.

"This book is intended to meet the needs of schools and departments of vocational agriculture. Since these agencies are concerned primarily with the practical phases of fruit growing, it follows that this book, if it achieves its purpose, should also be useful to those who are actually engaged in growing fruit. The activities are arranged on the seasonal basis, beginning with the harvesting of the crop... Each enterprise is broken down into its various operations just about as such operations would present themselves for consideration in practice." (Preface)

Ornamental Dwarf Fruit Trees. How to grow and train them in the home garden. By Eberhard Abjornson. 65 p. il. New York, DeLamare Co., 1929.

The Cherry and its Culture. By V. R. Gardner, Horticulturist and Director of the Michigan Agricultural Experiment Station. 128 p. il. New York, Orange Judd Pub. Co., 1930.

Written "with the object of bringing together a fund of information on the cherry and its culture that will be equally useful to the amateur who has only a few trees, and to the commercial producer who may have several hundred acres." (Preface)

Cauliflower and Broccoli Culture. Principles and practices involved in the growing and marketing of these important vegetables including soil and climatic requirements, soil management, plant growing, pest control, marketing, yields and values, production costs, varieties, and seed growing. By A. G. B. Bouquet, Professor of Vegetable Gardening, Oregon State Agricultural College. 125 p. il. New York, Orange Judd Pub. Co., 1929. (Garden Series)

Vegetable Growing. By James Edward Knott, Research Professor of Vegetable Gardening, Cornell University. 352 p. il. Philadelphia, Lea & Febiger, 1930.

"The aim in the preparation of this book has been to set forth the fundamentals of vegetable production, suggesting whenever possible the reasons for the methods followed and the plant responses obtained."

Everybody's Garden. The how, the why, and especially the wherefore, of the home garden, with emphasis upon the interests of the average American. By Frank A. Waugh. 396 p. il. New York, Orange Judd Pub. Co., 1930.

Rosemary Makes a Garden. By Caroline B. King, Woman's Editor of The Country Gentleman. 218 p. il. Philadelphia, The Penn. Pub. Co., 1930.

A book "for the embryo gardener with full instructions on planting, cultivating, soil, arrangement of flowers both indoor and out, and how to make a garden all that it should be."

AMERICAN BOOKS (Cont'd)

From a New Garden. By Mrs. Francis King, with an introduction by A. P. Saunders. 213 p. il. New York, Alfred A. Knopf, 1930.

Consists for the most part of various contributions to Country Life, McCall's Magazine, House and Garden, The Spur, and Good House-keeping.

Rock Garden Primer. By Archie Thompson. 132 p. il. New York, De La Mare Co., 1929.

Covers conditions for the temperate region of America.

Perennials of Flowerland. By Alice T. A. Quackenbush. 258 p. New York, The Macmillan Company, 1929.

"Not a practical book of flower growing but rather a Who's Who. It is, in fact, a series of short biographies of the most important perennials, which include a bit of their family history, their occupations, so to speak, and their portraits."

Better Sweet Peas. By George J. Ball. rev. ed. 210 p. il. Chicago, Florists' Publishing Co., 1930.

"A new book of the same title as that by this author published ten years ago, but completely rewritten and carrying several additional chapters." (Publisher's announcement)

Lilac Culture. By John C. Wister, President of the American Iris Society. 123 p. il. New York, Orange Judd, 1930.

The author states that this book "does not attempt to enumerate, much less to describe all the species and varieties of lilacs; it is merely a brief and elementary review of some of the more important garden kinds; its purpose is to help the beginner understand something of the beauty of the lilac family and to encourage everyone who has a small piece of land to plant at least one lilac."

Landscaping the Home Grounds. By L. W. Ramsey, Landscape architect. 170 p. il. New York, The Macmillan Co., 1930.

It is the purpose of the author "To supply to home owners a volume which shows in simple terms just how to develop the home grounds, according to the standards of good taste as they prevail today." The author just recently completed a nation-wide survey for the American Association of Nurserymen to determine to what extent the home grounds of America were planted.

Homes and Gardens in Old Virginia. By the Garden Club of Virginia. 211 p. il. Richmond, Va., J. W. Fergusson & Sons, 1930.

This book "is designed to give to the tourist making the garden pilgrimage a short and authentic history of each place, and instructions for roads and routes."

AMERICAN BOOKS (Cont'd)

Structure and Life of Forest Trees. By Dr. H. Büsgen, Professor in the Royal Prussian Forest Academy in Hann.-Münden. Third, rev., and enl. edition by Dr. E. Münch, Professor in the Forest Academy at Tharandt. English translation by Thomas Thomson, University Lecturer in Forestry, Univ. College of North Wales, Bangor. New York, John Wiley & Sons, 1929. 436 p. il.

"It was in order to bring together the results of research appearing in forestry and botanical literature that Büsgen wrote his book '*Bay und Leben unserer Waldbäume*'. The first edition appeared in 1897 and contained 225 pages with 100 figures. It not only gave a survey of what was known of the structure and physiology of trees, but also pointed out open questions and suggested lines of research... The second edition appeared in 1917 and the progress made in all branches of the subject in the intervening years necessitated a considerable enlargement and revision of the book. Büsgen died in 1921. The present work owes much to the editor, Dr. E. Münch. Whilst preserving the main lines of Büsgen's work, he has expanded and rewritten many of the sections and has himself contributed in no small degree to the advances which have made the further revision and enlargement of the book necessary." (Translator's preface)

Forests and Mankind. By Charles Lathrop Pack and Tom Gill. 250 p. il. New York, The Macmillan Co., 1929.

"The book fills a much needed place in American forest literature. It presents in a very readable form the story of the life of trees and forests, their service to human welfare and progress, the problems of practical forestry, and the advance of the forestry movement in this country. It is a book which everyone interested in forestry should read and have on his shelf." (Henry S. Graves, Dean of Yale School of Forestry)

Vanishing Forest Reserves. Problems of the national forests and national parks. by Willard G. Van Name. 190 p. il. Boston, Richard G. Badger, 1929.

"The purpose of this small volume is to draw attention to certain important questions affecting our national forests and national parks which have not, as far as the author is aware, been frankly discussed in any book." (Preface)

Northern Rocky Mountain Trees and Shrubs. By J. E. Kirkwood, Late Professor of Botany in the State University of Montana. 340 p. il. Stanford Univ., Calif., Stanford Univ. Press, 1930.

"Prepared to meet the need for a book on the trees and shrubs of the northern Rocky Mountains which will be of service in the hands of those not technically trained as botanists yet whose interests, vocational or otherwise, bring them into contact with the forest vegetation... The book has been so planned as to serve also the technical botanist interested in the flora either from the systematic or the ecological standpoint."

AMERICAN BOOKS (Cont'd)

Bread: A Collection of Popular Papers of Wheat, Flour and Bread.

By Harry Snyder, late Professor of Agricultural Chemistry, University of Minnesota, with biographical sketch by Andrew L. Winton. 293 p. il. New York, The MacMillan Company, 1930.

Largely composed of Professor Snyder's popular writings and lectures hitherto uncollected and now for the first time published in book form. In addition to the biographical sketch by Mr. Winton, there is an account of Professor Snyder's notable work on soils and fertilisers, by Frederick J. Alway, and an introduction by William C. Edgar. A list of the writings of Professor Snyder is given on p.279-290.

Food Purchasing for the Home. By Ruetta Day Blinks, formerly Assistant Professor of Foods and Nutrition, Iowa State College, and Willetta Moore, Instructor of Foods and Nutrition, Oregon State College. 434 p. il. Philadelphia, J. B. Lippincott Co., 1930. (Lippincott's Home Manuals Series)

"Written primarily for the consumer, whether student, teacher, or homemaker. It is intended to furnish the requisite information which will make a more discerning purchaser of food.... The contents of this book are an outgrowth of the authors' experiences in teaching food marketing at Iowa State College and at Oregon State College." (Foreword)

Successful Canning and Preserving. Practical hand book for schools, clubs, and home use. By Ola Powell Malcolm, U. S. Department of Agriculture, Field Agent - Home Demonstration Work, Office of Cooperative Extension Work. 4th ed. rev. 663 p. il. Philadelphia, J. B. Lippincott Co., 1930 (Lippincott's Home Manuals, edited by Benjamin R. Andrews)

The previous edition of this work contained 405 pages.

Clothing for Women: Selection and Construction. By Laura I. Balddt, Assistant Professor of Household Arts, Teachers College, Columbia University. 552 p. il. Philadelphia, J. B. Lippincott Co., 1929. (Lippincott's Home Manuals)

In order to be in line with progress and of help in the expression of new ideals, "Clothing for Women" has been issued in new form and content.

Middletown. A study in Contemporary American Culture. By Robert S. Lynd and Helen Merrell Lynd. 550 p. New York, Harcourt, Brace & Company, 1929.

Presents the interplay of the changing activities which constitute day by day living for a representative small American city. It is the result of a study of a staff of workers sent out by a research foundation who merged themselves for more than a year in the varied life of the city, and pictures the complex round of contemporary life - making a home, getting a living, training the young spending leisure, carrying on government, engaging in religious practices, and engaging in community activities.

AMERICAN BOOKS (Cont'd)

Profitable Farm Management and Marketing for the Corn-Growing States.

By Millard Herbert Overton, formerly Associate in Farm Management, Purdue University, and Lynn Shelby Robertson, Associate in Farm Management, Agric. Exper. Station, Purdue University. 377 p. il. Philadelphia, J. B. Lippincott Co., 1929. (Farm Enterprise Series, edited by Kary C. Davis)

Written for use in the secondary schools of the corn-producing regions and on the job analysis basis.

Readings in the Economic and Social History of the United States. By

Felix Flügel, Associate Professor of Economics, University of California, and Harold Underwood Faulkner, Associate Professor of History, Smith College. 978 p. New York, Harper & Brothers, 1929.

Our Economic Life, a General Social Science. By Thomas Nixon Carver, Professor of Political Economy, Harvard University, and Gladys Marion Adams, Teacher of Social Studies, William Penn High School, Philadelphia. 373 p. il. Philadelphia, John C. Winston Co., 1929.

Rural Municipalities. A sociological study of local government in the United States. By Theodore Bergen Manny, Senior Agricultural Economist, U. S. Department of Agriculture. 343 p. New York and London, The Century Co., 1930.

Economic Democracy. America's Answer to Socialism and Communism.

By Robert S. Brookings, President Emeritus, Washington University. 151 p. New York, The Macmillan Company, 1929.

Contains a chapter on agricultural corporations.

Rural Social Science. By Gustav A. Lundquist, Assistant Professor of Rural Sociology, University of Minnesota, and Clyde B. Moore, Professor of Rural Education, Cornell University. 483 p. il. Boston, Ginn & Company, 1929.

A textbook designed to meet the needs of the rural high schools. "Much of the material presented has been used by high-school teachers in manuscript form... It has been organized and written for the use of the busy teacher in the smaller high schools, where abundant reference materials are not always available." (Preface)

Trends in American Sociology. Edited by George A. Lundberg, Associate Professor of Sociology, University of Pittsburgh, Read Bain, Associate Professor of Sociology, Miami University, and Nels Anderson, Instructor in Sociology, Seth Low College of Columbia University. 443 p. New York, Harper & Brothers, 1929.

"Conceived and executed by a representative group of the younger generation of American sociologists, this volume presents a comprehensive survey of the field at present known as sociology." (Publishers' announcement). Chapter V is on the Trend of Rural Sociology, by Carle C. Zimmerman, University of Minnesota.

AMERICAN BOOKS (Cont'd)

Practical Economics. By Henry P. Shearman, Professor of Economics, School of Business Administration, Miami University. 2d rev. ed. 466 p. New York, McGraw-Hill Book Company, 1929.

A Picture of World Economic Conditions in the Summer of 1929. 309 p. New York, National Industrial Conference Board, Inc., 1929.

An analysis of the condition of industry and trade in twenty-two foreign countries and the United States. Part I presents and interprets the major statistics of industrial production, wages and employment, prices and cost of living, foreign trade, and conditions of public and private finance; Part II is a compilation of nineteen special articles from the Conference Board's foreign correspondents.

Agricultural Mathematics. By L. C. Plant, Professor of Mathematics, Michigan State College. 199 p. New York, McGraw-Hill Book Co., 1930.

"A text on fundamental mathematics, emphasizing agricultural applications and the importance of mathematics as a tool in solving agricultural problems."

The Last Stand of the Pack. By H. Carhart, in collaboration with Stanley P. Young, Principal Biologist of the U. S. Biological Survey. 295 p. New York, J. H. Sears & Company, 1929.

A tale of the extermination of the last of the wolves on the Western plains. "The wise animals, the last of their race, are so shrewd, so intelligent, that it takes all the skill which the Government officials can muster, and all their extraordinary bravery, to catch them one at a time."

The Life Story of Birds. By Eric Fitch Daglish. 236 p. il. New York, William Morrow & Co., 1930.

From Eden to Sahara. Florida's Tragedy. By John Kunkel Small. 123 p. il. Lancaster, Pa., The Science Ptg. Co., 1939.

The work consists of "a continuous narrative of botanical exploration of several thousand miles in the Florida peninsula and on the Florida Reef or Continental Shelf, from the middle of April to the middle of May, 1922." The "observations, facts and fancies" are recorded in chronological order. The author also describes the wholesale devastation of the plant covering, through carelessness, thoughtlessness and vandalism in the Peninsular State, prehistoric and historic.

AMERICAN BOOKS (Cont'd)

The Fungi of Manitoba. By G. R. Bisby, Professor of Phytopathology, and A. H. Roginold Buller, Professor of Botany, University of Manitoba, and John Dearness, formerly Professor of Biology, University of Western Ontario, with a preface by E. J. Butler, Director of the Imperial Bureau of Mycology, Kew, England. 194 p. New York, Longmans, Green & Co., 1929.

"This book contains an annotated list of about two thousand species of fungi and lichens collected in the Province of Manitoba, a territory hitherto unexplored by the mycologist. The list is preceded by thirteen sections in which various aspects of the fungi are discussed and it is followed by an index of hosts or substrata of the caulicolous and lignicolous fungi, a host index of the parasitic fungi, and a bibliography. The collections include 45 new species and 2 new varieties." (Publishers' announcement)

The Penicillia. By Charles Thom, Principal Mycologist, Bureau of Chemistry and Soils, U. S. Department of Agriculture, assisted by Margaret B. Church, O. E. May and M. A. Raines. 644 p. il. Baltimore, Williams & Wilkins, 1930.

"This study of *Penicillium* goes back to 1904 when the author, assigned to cheese investigations at the Storrs Agricultural Experiment Station by the U. S. Department of Agriculture, was first compelled to attempt to identify the molds active in the cheese cellar. With that end in view, he carried a miscellaneous lot of *Penicillia*, *Mucors*, *Aspergilli*, *Monilia*, *Oidium*, *Oospora* [etc.], to the Cryptogamic Laboratory of Harvard University for study. Prof. Roland Thaxter, passing his desk, looked the lot over, came upon various unrecognizables, and said approximately, 'Why bother with these miserable little things? Why not do something worth while, straighten out *Penicillium*? It is an awful mess.' The challenge was accepted and has been kept in sight through many vicissitudes which have at times taken him far afield during these twenty-five years. At best, it is possible to present only a very unsatisfactory scheme of classification of this difficult group." (Author's introduction)

Bibliography: pp. 601-624.

Manual of Wayside Plants of Hawaii, including illustrations, descriptions, habits, uses and methods of control of such plants as have a wild nature of growth, exclusive of ferns. By Willis T. Pope, Senior Horticulturist, U. S. Department of Agriculture, Hawaii Experiment Station, Honolulu, T.H. 289 p. il. Hawaii, Advertiser Pub. Co., Ltd., 1929.

Our Familiar Island Trees. By Mary Dillingham Frear. Sponsored by the Outdoor Circle of Honolulu. 161 p. il. Boston, Richard G. Badger, (The Gorham Press), 1929.

The descriptive guide to both the common and scientific names of the trees and shrubs and vines of Hawaii.

Vocational Education in Agriculture. International Labour Office, Studies and Reports, Series K (Agriculture), No. 9, 244 p. Geneva, 1929. (Published in London by P. S. King & Son, Ltd.) Price 5 shillings.

This report is the result of a questionnaire sent out by the International Labour Office to all States Members of the International Labour Organization, also to the United States and Russia. It is divided into two parts. "Part I gives a general survey on an international basis. It falls into three sub-sections, of which the first is descriptive and gives a fairly complete account of vocational agricultural education, its organization and character, its large divisions, and the methods and technique employed. The next sub-section is reserved for a discussion of some important special problems, and in a final sub-section some remarks on the results of vocational education and its future are made. Part II consists of special surveys of existing systems in each country and is confined to a setting forth of facts in summary form."

Herbs, Salads and Seasonings. By X. M. Boulestin and Jason Hill. 72 p. il. London, William Heinemann Ltd., 1930.

"This is a book for gardeners as well as for cooks, for the author explains first what to grow and how to grow it, then how to use it. Anyone who likes to go exploring in search of new flavours will find here the best and most entertaining of guide-books. Basil, balm, sweet fennel, apple mint, parsley, angelica, sorrel, tansy, and a hundred others are gathered here, with their habits and their uses, into a valuable and original bouquet."

The Anatomy of Dessert. By Edward A. Bunyard. 134 p. London, Dulau & Co., 1929.

Delightful essays of a gastronomic character, by an eminent horticulturist, on the various common fruits such as apples, apricots, cherries, figs, gooseberries, etc.

Wild Gardening. By E. H. M. Cox. 124 4. il. London, Dulau & Co., 1929.

Discusses what the author considers two distinct types of wild gardens, first, the type that may be called the improvement, by the addition of flowers, of a landscape which already possesses sufficient natural beauty to warrant improvement and the addition of colour, and second, the type in which plants are cultivated under as natural conditions as possible.

The Application of Science to Crop-Production. An experiment carried out at the Institute of Plant Industry, Indore. By Albert Howard, Director of the Institute of Plant Industry, Indore. and Gabrielle L. C. Howard, Second Imperial Economic Botanist (on Deputation to the Institute of Plant Industry, Indore). 81 p. il. London, Humphrey Milford, Oxford Univ. Press, 1929.

Contents: I. The Genesis of the Indore Experiment; II. The Institute of Plant Industry, Indore; III. Investigations on Cotton; IV. Improvements in the Agronomy of Cotton; V. Some Further Agricultural Improvements; VI. The Maintenance of Liaison between the Institute and its Supporters; VII. The Organization of Agricultural Research.

The Incidence of Farming Prosperity and Depression. A survey of conditions in England today. By D. Skilbeck and M. Messer. 31 p. Oxford, University Press, 1929. (University of Oxford, Agricultural Economics Research Institute)

The Farmer's Business. A study based on conditions in part of South Oxfordshire in 1923. By R. N. Dixey and A. Bridges. 47 p. Oxford, University Press, 1929. (University of Oxford, Agricultural Economics Research Institute)

The Farmers' Crusade. How Empire Free Trade will help British Agriculture. By Lord Beaverbrook. 12 p. London, Empire Crusade, n.d.

Agriculture - Industry's Poor Relation. By George Walworth, Agricultural Organiser to the Cooperative Union. 32 p. London, Ernest Benn Ltd., 1929. (Self and Society Booklets, no. 22).

Yearbook of Agricultural Cooperation, 1930. Edited by the Horace Plunkett Foundation. 576 p. London, George Routledge & Sons, Ltd. Books, Surveys and Reports, p.453-508.
Bibliography of Agricultural Cooperation, p.541-556.

The Agrarian System of Moslem India. An historical essay with appendices. By W. H. Moreland. 296 p. Cambridge, W. Heffer & Sons, Ltd., 1929.

"This book may be described as an essay in institutional history. During the main period of Moslem rule in India, lasting from the thirteenth to the eighteenth century, a kingdom had three essential constituents, the Sovereign who ruled it, the Army which supported the throne, and the Peasantry which paid for both; and the relation subsisting between these entities was aptly presented in an aphorism current in the early days that 'troops and pheasants are the two arms of the kingdom.' The dynastic and military history of the period is now tolerably accessible to students, but it is impossible to obtain from the existing literature a general or connected view of the position of the peasants in their relations with the State, and it is this gap which I now attempt to fill." (Author's Introduction)

The Economic Development of India. By Vera Anstey, Lecturer in Commerce, London School of Economics and Political Science. 581 p. New York, London, Toronto, Longmans, Green & Co., 1929.

This work is an "attempt at presenting, within the limits of one volume, a synthetic impartial view of the recent development, present position, and main problems of Indian economic life. A special object has been to bring into strong relief the relative importance of the main economic problems of the day, and to endeavor to discover what are the really fundamental difficulties confronting the more rapid promotion of material welfare." (Author's Preface)

ENGLISH BOOKS (Cont'd)

Gamonia: or The Art of Preserving Game, and an Improved Method of Making Plantations and Covers. By Lawrence Rawstorne. A new edition with an introduction and a note on the author's game register by Eric Parker, Shooting Editor of The Field. 256 p. il. London, Herbert Jenkins Ltd., 1929.

"Gamonia, or the Art of Preserving Game, was published for Lawrence Rawstorne by Rudolph Ackermann in 1837. It was privately printed and the only copies that found their way into country house libraries were gifts from the author. Only a few copies were printed, and for many years past the book has been a rarity occasionally to be found in catalogues, bought at a high price by collectors, and valued for the quaintness and delicacy of its coloured engravings. But Gamonia is valuable not only for its rarity and charm. It is interesting in that it has a definite place in the history of the literature of shooting. It is the first treatise devoted solely to the subject of pheasant rearing, covert shooting, and the management of woodlands for the special purpose of preserving game." (Introduction)

Two Thousand Years of Science. The Wonders of Nature and Their Discoverers. By R. J. Harvey-Gibson, Emeritus Professor of Botany in the University of Liverpool. 362 p. il. London, A. & C. Black, 1929.

"A fully-illustrated account of the growth of science from early times down to the present day, written for the general reader in an entertaining but authoritative manner by a distinguished scientist. The romance of scientific discovery from the first enquiries of the ancient Greeks to the work of Herschel, Faraday and Darwin, leads into the enormous developments of the last fifty years - the science of today - which occupy more than one-third of the book."

The Great Chemists. By Eric John Holmyard. 138 p. London, Methuen & Co., Ltd., 1929.

"Attempts to describe the development of chemistry from the earliest times to the present day by a brief consideration of the lives and works of some of the most celebrated exponents of the science."

Growth and Tropic Movements of Plants. By Sir Jagadis Chunder Bose, Founder and Director, Bose Research Institute, Calcutta, India. 447 p. il. New York, London, Toronto, Longmans, Green & Co., 1929.

This book, with the author's "Motor Mechanism of Plants", published in 1928, completes his treatment of the subject.

The Principles of Underdrainage. By Reginald David Walker. 223 p. il. London, Chapman & Hall Ltd., 1929.

"In this book the broad principles of underdrainage in its various branches are given. As far as the author is aware, no book embodying underdrainage in all its aspects has yet been written and it is with a view to filling this want that the present volume has been compiled." (Preface)

GERMAN BOOKS

Deutsches Rinderleistungsbuch. Herausgegeben im Auftrage des Vorstandes von Dr. F. Bässmann, Geschäftsführer. Band I. 296 p. Berlin, D. R. L. B., 1929. Mk. 12.

Coincident with the publication of this book, the Deutsche Landwirtschafts-Gesellschaft (German Agricultural Society) issued a statement about it, from the translation of which the following extracts are taken:

"Much earlier than expected it has become possible to give to the public Book I of the German Cattle Record Book. Its appearance can be regarded as a milestone in the development of German cattle breeding... In a preface, the chairman of the German Cattle Record Book, Geheimrat Hansen, gives a summary of the achievements attained so far. Not only the number of animals registered is given, but also the average and highest yields, which clearly express the value of the data collected by the German Cattle Record Book. Following the preface is a list of the rules governing the examinations. Lists of the animals registered form the chief contents of the book, the animal being listed and classified as follows: A - Lowland Cattle. I. Cows, II Bulls....; B - Highland Cattle..... The appendix contains 38 good pictures of registered animals... At the end of the book there are a number of indexes which enable one to find rapidly each animal registered, the owner, and the breeding association it belongs to. It can be added further that both paper and print of the Record Book are very good so that the book, as such, makes a good impression. It is to be hoped that the German Cattle Record Book will find widespread circulation in cattle breeding circles. Its contents are not only of importance and interest to the breeding associations and their members but also to everybody interested in cattle breeding. It is....not only of importance for Germany but also for other countries."

Die Bodenazidität, nach agrilkulturchemischen Gesichtspunkten dargestellt. Von Prof. Dr. H. Kappen, Direktor des Instituts für Chemie an der Landwirtschaftlichen Hochschule Bonn-Poppelsdorf. 363 p. Berlin, J. Springer, 1929.

Albrecht Thaer. Nach amtlichen und privaten Dokumenten aus einer grossen Zeit. Von Dr. Walter Simons. Gedenkschrift der Gesellschaft für Geschichte und Literatur der Landwirtschaft zum 100. Todestage Thaers. 266 p. il. Berlin, Paul Parey, 1929.

Schlipf's Praktisches Handbuch der Landwirtschaft. Gekrönte Preisschrift Jubiläumsausgabe. Fünfundzwanzigste, neubearbeitete Auflage, herausgegeben von Dr. Th. Wölfer, Direktor der Höheren Lehranstalt für praktische Landwirte in Schleswig. 553 p. il. Berlin, Paul Parey, 1929.

Die Industrialisierung der deutschen Landwirtschaft, eine neue Phase kapitalistischer Monopolherrschaft. By Edwin Hoernle. 74 p. Berlin, Internationaler Arbeiter-Verlag [1929].

FRENCH BOOKS

Congrès des Docks et Silos a Céréales de l'Afrique du Nord, Marseille,
27-30 Septembre, 1928. Compte Rendu et Rapports. 320 p. Marseille,
Institut Colonial, 1929.

Annales del Primer Congreso de Irrigación y Colonizacion del Norte,
18 de Febrero-24 de Febrero de 1929, Lambayeque, Republica del Peru,
Lima, Imprenta Torres Aguirre, 1929. 4 v.

Procès-Verbaux de la 3^{ème} Réunion, Commission de Météorologie Agricole,
Organisation Météorologique Internationale, Copenhague, 1929. 101 p.
Stockholm, Kungl. Boktryckeriet. P. A. Norstedt & Söner, 1929. (Statens
Meteorologisk-Hydrografiska Anstalt, Nr. 276)

La Cotonnier. By Raymond C. P. Bonne, 307 p. il. Paris, Société
d'Editions Géographiques, Maritimes et Coloniales, 1929.
v. I. Variétés, hérédité, hybridation, sélection et Biotaxie du
Cotonnier. Bibliography: 255-306.

BIBLIOGRAPHIES

Bibliography of American Cookery Books. 1742-1860. By Waldo Lincoln.
145 p. Worcester, Mass., American Antiquarian Society, 1929.

This volume is reprinted from the Proceedings of the American Antiquarian Society for April, 1929. In the introduction the author gives the following statement on the scope of the bibliography: "The bibliography and checklist of American cookery books here presented is the result of an attempt, begun several years ago, to make a comprehensive collection of all the British and American imprints on the subject. In the absence of any complete bibliography it was impossible to foresee how large an undertaking this would prove to be, but it was not long before it became evident that the United States alone furnished a sufficiently large field for such a collection, and the fact that the American Antiquarian Society, to which it was the ultimate aim to present the collection, limited its library to Americana, also made a limitation to American imprints desirable.... The earliest American imprint on cookery known, a reprint of an English work, is dated 1742 and no work by an American author has been found of earlier date than 1796... The time limit of the collection to the year 1900, first adopted, was later extended to 1914, the beginning of the World War, when the publication of cookery books increased exceedingly. Wars seem to have a stimulating effect on this class of literature as well as on others. The American Civil War had a similar effect, but unfortunately at that time, substitution of wood pulp for rags in the manufacture of paper caused a great deterioration in the quality of the paper used in books intended for popular consumption. Cookery books increased in number but decreased in bibliographical value in the matter of printing, paper and binding. This and other considerations led to the selection of 1860 as the time limit for this bibliography." After each item in the bibliography are the abbreviations of the library or libraries which possess the imprint. The libraries cited number 22.

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- Check List of Publications on Entomology issued by the United States Department of Agriculture, through 1927, with subject index. Comp. by Mabel Colcord, Ina L. Hawes and Angelina J. Carabelli, Library, Bureau of Entomology. 261 p. (U. S. Dept. of Agriculture Library Bibliographical Contribution no. 20). This check list is in four parts: (1) The general series of the Department; (2) the publications of the Bureau of Entomology; (3) the publications relating to entomology of other bureaus, divisions and offices of the Department; (4) the subject index.
- Valuation of real estate, with special reference to farm real estate. Comp. by Emily L. Day, under the direction of Mary G. Lacy, Librarian, Bureau of Agricultural Economics, U. S. Department of Agriculture. 87 p. (Agricultural economics bibliography no. 29)
- Large scale and corporation farming. A selected list of references. Comp. by Margaret T. Olcott, Assistant Librarian, Bureau of Agricultural Economics, U. S. Department of Agriculture. 87 p. (Agricultural economics bibliography no. 30)
- State Extension Publications on Home Management. A selected list of references. Comp. by Edith J. Webb, Office of Experiment Stations Library, U. S. Department of Agriculture. 24 p.
- Bibliography on the Relation of Clothing to Health. By Ruth O'Brien, Esther C. Peterson, and Ruby K. Wormer, Bureau of Home Economics, U. S. Department of Agriculture. 146 p. (U. S. Dept. of Agriculture, Misc. Pub. 62)
- List of Bulletins of the Agricultural Experiment Stations for the Calendar Years 1927 and 1928. By Catherine E. Pennington, Junior Librarian, Office of Experiment Stations, U. S. Department of Agriculture. (U. S. Dept. of Agriculture, Misc. Pub. 65) A continuation of Department Bulletin 1199 and the three supplements thereto.
- A Bibliography for Future Farmers of America. Comp. by Karl Brown, Iowa State College Library, Ames, Iowa. 17 p. (Dist. by the American Library Association).
- A Partial Bibliography of the Natural History of California. By Tracy I. Storer. (News Notes of California Libraries, Jan. 1930, v. 25, no. 1, p. 1-22)
- Books for Future Farmers. Comp. by Jessie Gay Van Cleve. 5 p. (Dist. by American Library Association) The list is designed for boys of high school age or attainment.
- Rural Life from the Aspect of the Social Worker. Selected references to recent material. 4 p. Russell Sage Foundation, 130 East 22d St., New York City. Price 10 cents.

NOTES ON PERIODICALS

New Periodicals

American

American farm journal. Washington, D. C. mo. f°. v. 1, no. 1, Mch. 1930.
\$1.00 a year.

California rosarian. Point Loma, Calif. mo. 4°. il. v. 1, no. 1, Jan.
1930. \$2.50 a year.

North Carolina farm business. North Carolina state college of agriculture
and engineering, Raleigh, N. C. mo. 8°. v. 1, no. 2, Feb. 1930.

Review of scientific instruments. 450-454 Hennip St., Menasha, Wisconsin.
mo. il. 8°. v. 1, no. 1, Jan. 1930. \$4.00 a year.

Sugarbeet. Mason City, Ia. mo. 8°. il. v. 1, no. 1, Feb. 1930.

Swine news. Des Moines, Ia. "5 or more issues the year". 4°. v. 1,
no. 3, Jan. 1930. 25 cents a year.

Washington (State) - State college. Research studies. Pullman, Wash.
quar. 4°. il. pl. v. 1, no. 1, June, 1929. \$2.00 a year.

Foreign

Bee kingdom. Cairo, Egypt. mo. 8°. il. v. 1, no. 1, Jan. 1930.
6 shillings.

Journal of dairy research. London. semi-an. v. 1, no. 1, Nov. 1929.

Revista de industria animal.... no. 1- Nov. 1929-. illus. 4°. Sao Paulo,
[1929]. Pub. da Directoria de industria animal, Secretaria da agri-
cultura, industria e commercio [Sao Paulo].

St. Augustine, Trinidad. Imperial college of tropical agriculture.
Memoirs... Mycological series, no. 1-. plates. 4°. [Trinidad] 1930-.

Sociedade paulista de medicina veterinaria. Revista. Sao Paulo, Brazil.
bi-mo. 8°. plates. v. 1, no. 1, Nov. Dec. 1929.

Tasmania - Dept. of agriculture. Tasmanian journal of agricultura.
Tasmania. quar. 8°. il. v. 1, no. 1, Nov. 1929. 6d.

Die tierernährung; zeitschrift für die gesamte fütterungslehre und futter-
mittelkunde. Leipzig. 8°. il. bd. 1, hft. 1, Dec. 1929.

Zeitschrift für züchtung. Berlin. Issued as Reihe A: Pflanzenzüchtung,
und Reihe B: Tierzüchtung und züchtungsbiologie. Formed by the union
in Jan. 1930, of Zeitschrift für pflanzenzüchtung and Zeitschrift für
tierzüchtung und züchtungsbiologie. Volume numbering of earlier
periodicals continued.

NOTES ON PERIODICALS (Cont'd)

Changes

- Farm and fireside. Springfield, Ohio. Changed with v. 54, no. 2, Feb. 1930 to Country home.
- Farm visitor. Waco, Tex. Changed to Home and farm visitor with v. 1, no. 9, Jan. 1930.
- The Field. New York. Changed to Home and field with v. 40, no. 1, Jan. 1930.
- "OK" poultry journal. Changed to "OK" poultry culture with v. 19, no. 3, Feb. 1930.
- Sugar beet review and British beet grower. London. Changed to British sugar beet review with v. 3, no. 7, Mch. 1930.
- Wiedman's farmer. La Crosse, Wis. Changed to Wiedman's fur farmer with v. 2, no. 1, Jan. 1930;
- Wissenschaftliches archiv für landwirtschaft. Abt. B: Tierzucht und tierhaltung. Berlin. Changed to Wissenschaftliches archiv für landwirtschaft. Abt. B: Tierernährung und tierzucht, with bd. 1, heft 4, Dec. 5, 1929.
- Zeitschrift für pflanzenzüchtung. Berlin. With Jan. 1930, bd. 15, hft. 1, united with Zeitschrift für tierzüchtung und züchtungsbiologie to form Zeitschrift für züchtung, which is issued as Reihe A: Pflanzenzüchtung, and Reihe B: Tierzüchtung und züchtungsbiologie.
- Zeitschrift für tierzüchtung und züchtungsbiologie. Berlin. With bd. 17, hft. 1, Jan. 1930, united with Zeitschrift für pflanzenzüchtung to form Zeitschrift für züchtung.

Ceased

- L'Abeille et l'Érable. Quebec. Ceased with v. 11, no. 12, Dec. 1929. Absorbed by Le Bulletin de la ferme.
- Oregon countryman. Corvallis, Ore. Ceased with v. 22, no. 1, Oct. 1929. Absorbed by Oregon state monthly.
- Pacific poultrycraft. Los Angeles. Ceased with Nov. 1929. Absorbed by Poultry craftsman and breeder.
- Planter and sugar manufacturer. New Orleans. Ceased with v. 83, no. 19, Nov. 9, 1929. Absorbed by Sugar (New York) with Nov. 1929.
- Sugar. New York. Ceased with v. 31, no. 12, Dec. 1929. Absorbed by Facts about sugar, Jan. 1930.

KARAKUL SHEEP

A selected list of references prepared by
Emma B. Hawks, Associate Librarian,
U. S. Department of Agriculture.

- Adametz, L. Die Variationstypen der Karakulrasse. (Mitteilungen, Landwirtschaftlichen Lehrkanzeln. K. K. Hochschule für Bodenkultur in Wien. v. 1, 1912, p.57-89)
- Adametz, Leopold. El carnero "karakul", monografia. 101 p. Buenos Aires, 1914.
- Adametz, Leopold. Ueber die Vererbungsweise der Karakullocke bei Kreuzungen von bocharischen Fettschwanzschafen mit Rambouillets. (In Zeitschrift für induktive Abstammungs- und Vererbungslehre. v. 17, p. 161-202. 1917)
English abstract in International review of the science and practice of agriculture (published by International institute of agriculture, Rome). v. 8, 906-908. 1917.
- Ashbrook, F. G. Fur-farming for profit. N. Y., Macmillan, 1928.
Karakul sheep: p.239-262.
- Breeding Karakul sheep. (In Pan American Union. Bulletin. v. 48, p.352-358. Mar. 1913)
- Byrd, R. H. Karakul sheep. (In Wallace's Farmer. v. 41, p.1274, Sept. 29, 1916)
- Dacy, G. H. Karakul sheep and Persian lamb skins. (In National Wool Grower, v. 7, p. 11-12. May, 1917)
- Dawley, F. E. Raising Persian fur in America. 8 p. Fayetteville, N. Y. [1914].
- Duck, R. W. Mendelism in fur sheep crosses. (In Journal of Heredity. v. 12, p.401-413. Nov. 1921; v. 13, p.63-68. 1922)
- Heinecke, A. Home of the Persian lamb. (In Travel. v. 30, p.35-37. Jan. 1913)
- Hoffman, H. Producing Persian fur sheep in America. (In American Sheep Breeder and Wool Grower. v. 37, p. 108-109. Feb. 1917)
- Holm, Alex. Karakul sheep. (In Agricultural Journal and Small-Holder of South Africa. v. 3, p. 168-174. June, 1916)
Abstract in International review of the science and practice of agriculture (published by the International institute of agriculture, Rome). v. 8, p.113-116. Jan. 1917.
- Karakul sheep in New York State. (In American Sheep Breeder and Wool Grower. v. 37, p.475-476. Aug. 1917)

KARAKUL SHEEP

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- Karakuls; a new western sheep with very fine wool said to have been brought to this country by Theodore Roosevelt. (In American Cooperative Journal. v. 14, p. 2, etc. Sept., 1918)
- Karakuls from Texas. (In American Sheep Breeder and Wool Grower. v. 42, p. 221-222. 1922)
- Karpov, M. Caracul sheep farming. From the Russian. (In Agricultural Journal, Union of South Africa. v. 6, 1913, p. 760-766, 939-944, v. 7, 1914, p. 93-95, 199-206, 398-407)
- Karpov, M. Some points on karakool sheep farming. 35 p. (South Africa. Dept. of agriculture. Bulletin 17, 1914)
- Kühn-Archiv; Arbeiten aus den landwirtschaftlichen Instituten der Universität Halle. v. 18, 1928.
This volume consists entirely of scientific papers on Karakul sheep and has extensive bibliographies.
- Lamon, H. M. Karakule or arabi sheep industry. (In The Call of the South. v. 2, no. 3, p. 41. Sept. 1914)
- McConnell, T. F. Karakul sheep - a new breed. (In Pacific Rural Press. v. 101, p. 157, Jan. 15, 1921)
- McKinney, L. T. Karakul sheep in Canada. (In Live Stock Journal. v. 95, p. 612, June 23, 1922)
- Marshall, F. R., Heller, L. L., and McWhorter, V. O. Karakul sheep. (In U. S. Dept. of Agriculture. Yearbook, 1915, p. 249-262)
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- Meuleman, E. Le mouton Karakul. 20 p. Bruxelles, 1908.
- Mitchell, G. E. Persian lamb and our fur industry. (In Scientific American. v. 134, p. 247. April, 1926)
- Moulton, R. H. Sheep raised for fur. (In Ohio Farmer. v. 143, p. 914. June 14, 1919)
- Nabours, R. K. Caracul sheep as fur-bearers. (In Breeders' Gazette. v. 81, p. 42. Jan. 12, 1922)
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- New York (State) Dept. of farms and markets. The sheep industry in New York State. 230 p. 1923. (Bulletin 157)
- Nicov, Th. Bestimmung der Wollbestandteile bei Karakullämmern. (In Landwirtschaftliche Jahrbücher. v. 70, p. 257-304. 1930)
Literaturverzeichnis: p. 304.
- Nicov, Th. Untersuchungen der Karakuljugendlocken mit besonderer Berücksichtigung von Länge und Feinheit der Haare. (In Wissenschaftliches Archiv für Landwirtschaft. Abt. B. Tierzucht u. Tierhaltung. Bd. 1, Heft 3, p. 519-572. 1929)
- O'Brien, G. E. Karakul sheep and Persian lamb fur production. 8 p. (Canada. Dept. of Agriculture. Live Stock Branch. Pamphlet 15. 1918)
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Inaug.-Diss. -Halle-Wittenberg.
"Literature": p. 169.
- Schuurman, G. J. Export of Karakul skins. (In Journal of Dept. of Agriculture of South Africa. v. 8, p. 518-520. May, 1924)
- Schuurman, G. J. Karakul cross-breeding and value of skins. (In Farming in South Africa. v. 3, p. 845. June, 1928)
- Smith, Harlan D. Breeding lambs for fur. (In Farm and Ranch. Dallas, Tex. v. 32, no. 36, p. 1-2. Sept. 6, 1913)
- Tatocico, V. La race de moutons Karakul-Boukhara à l'École inférieure d'agriculture de Cocorozoni (Dist. Orhei). 18 p. Bucarest, Ed. par le ministère de l'agriculture et des domaines, Direction des publications. 1925.
- Voight, Gustav. Treatment of karakul skins. (In American Sheep Breeder and Wool Grower. v. 42, p. 563-4. 1922)
"From the Farmer's Weekly."
- Wahl, R. O. Karakul sheep. (In Journal of the Dept. of Agriculture, South Africa. v. 1, p. 509-527, 626-642. 1929)

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- Young, C. C. Hardiness of Karakul sheep. (In Journal of heredity. v. 15, p. 166. Apr. 1924)
- Young, C. C. Historical sketch of the Karakul sheep industry. (In Producer. v. 8, p. 3-6. July, 1926)
- Young, C. C. Into forbidden Afghanistan. (In Travel. v. 35, p. 5-10. Aug. 1920)
- Young, C. C. Karakul sheep in the United States. (In American Sheep Breeder and Wool Grower. v. 37, p. 400-401. July, 1917)
- Young, C. C. Karakul sheep breeding in the United States. (In International Review of the Science & Practice of Agriculture. n. s., v. 1, p. 452. Apr. 1923)
- Same in Agric. Gazette of Canada. v. 11, p. 92-93. Jan. 1924.
- Young, C. C. Practical tests in Karakul sheep breeding. (In Journal of Heredity. v. 13, p. 229-236. May, 1922)
- Young, C. C. Some facts about karakule sheep. 20 p. 1909.

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SELECTED LIST OF MICROGRAPHED PUBLICATIONS
of the U. S. Department of Agriculture
issued during January-March, 1930, exclusive of current issues
of serials.*

Bureau of Agricultural Economics

The agricultural outlook for 1930. 5 p.

Beginnings of cooperative egg and poultry marketing. A preliminary report. By Chastina Gardner. 13 p. (Issued by Division of cooperative marketing)

Buying and selling livestock by grade. By C. E. Gibbons. 9 p.

Commercial washing of smutty wheat under eastern conditions. By John H. Cox and Harold E. Earp. 12 p. (Issued by Grain division)

A comparison of Outlook statements with subsequent events. By Oris V. Wells. 19 p. (Issued by Division of farm management and costs)

Cost-of-production statistics of strawberries in southern and eastern states. By A. P. Vrodel. 62 p. (Issued by Division of farm management and costs)

The demand for dried fruit in Germany. By Hilton J. Newhouse. 26 p. Report F. S. 47. (Issued by Division of statistical and historical research)

Earmarks of a successful mutual. By V. N. Valgren. 7 p. (Issued by Division of agricultural finance)

Facts about cotton. 1930 outlook. 23 p. (Issued by Division of statistical and historical research)

Foreign trade of the United States, annual, 1790-1929. Cattle, beef, and beef products. By Caroline G. Gries. 71 p. Report F. S. 45. (Issued by Division of statistical and historical research)

Foreign trade of the United States, annual, 1790-1929. Wheat and wheat products and rye and rye products. By Caroline G. Gries. 85 p. Report F. S. 46. (Issued by Division of statistical and historical research)

Grain grading, development and structure of grades. Prepared by R. C. Miller, W. P. Carroll and F. G. Smith. 13 p. Folder no. 1, Grain standards educational committee. (Issued by Grain division)

Grain grading equipment for the country elevator. By F. J. Welch, H. P. English, and W. P. Carroll. 12 p. (Issued by Grain division)

*For a list of the principal series issued regularly, see vol. 4, no. 1-2, p. 347.

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS

Bureau of Agricultural Economics (Cont'd)

- Large scale and corporation farming. A selected list of references. Comp. by Margaret T. Olcott. 87 p. Agricultural economics bibliography no. 30. (Issued by the library)
- Large scale farming in the United States. By H. R. Tolley and C. L. Holmes. 10 p. (Issued by Division of farm management and costs)
- List of agricultural economic reports and services of the Bureau of agricultural economics. 39 p. (Issued by Division of economic information)
- A list of publications on agricultural economics of interest to teachers of vocational agriculture, issued by Bureau of agricultural economics. Comp. by J. Clyde Marquis. 16 p. (Issued by Division of economic information)
- Marketing Arizona lettuce. Summary of 1929 spring season. By H. R. Lamb. 29 p. (Issued by Division of fruits and vegetables)
- Marketing Eastern Shore strawberries, Delaware, Maryland and Virginia. Summary of 1929 season. By R. E. Keller. 18 p. (Issued by Division of fruits and vegetables)
- Marketing Florida celery in 1929. Summary by H. E. Rutland. 22 p. (Issued by Division of fruits and vegetables)
- Marketing Florida citrus. Summary of 1928-29 season. By H. F. Willson. 73 p. (Issued by Division of fruits and vegetables)
- Marketing Imperial Valley lettuce. Summary of 1929 season. By A. E. Prugh. 37 p. (Issued by Division of fruits and vegetables)
- Marketing Louisiana strawberries. Summary of 1929 season. By Bryce Morris. 23 p. (Issued by Division of fruits and vegetables)
- Marketing Michigan potatoes. Summary of 1928-29 season. By R. H. Shoemaker. 36 p. (Issued in cooperation with Michigan Department of agriculture, Bureau of foods and standards)
- Marketing prospects for late or main-crop potatoes, 1929, with statistical tables. 15 p.
- Marketing the lower Rio Grande Valley Texas potato crop. Summary of 1929 season. By W. D. Googe. 28 p. (Issued by Division of fruits and vegetables)
- Marketing Northwestern apples. Summary of 1928-29 season. By A. E. Prugh and L. B. Gerry. 58 p. (Issued by Division of fruits and vegetables)

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS

Bureau of Agricultural Economics (Cont'd)

- Marketing Texas Bermuda onions. Summary of 1929 season. By S. W. Russell and J. D. Hamilton. 29 p. (Issued by Division of fruits and vegetables)
- Marketing Texas spinach, season 1928-1929. By G. D. Clark. 13 p. (Issued by Division of fruits and vegetables)
- Motor-truck transportation of fruits and vegetables, southern Indiana and southern Illinois, 1928 crop. By Brice Edwards. 37 p. (Issued by Division of fruits and vegetables)
- Publications relating to farm population and rural life. 10 p. (Issued by Division of farm population and rural life)
- Regional changes of farm animal production in relation to land utilization. A preliminary report. By O. E. Baker. 47 p. (Issued by Division of land economics)
- The relation between production, prices and acreage of potatoes on the eastern shore of Maryland. By L. H. Bean. 5 p.
- Removal of ergot from rye by use of salt water and influence of such treatment on the milling and baking properties of rye. By John H. Cox and Harold E. Earp. 11 p. (Issued by Grain division)
- Summary of standard tobacco grades for U. S. Type 23. 4 p.
- Truck crop reports issued by the U. S. Department of agriculture. 9 p.

Bureau of Biological Survey

- Recent developments in the migratory game bird situation. An address by W. C. Henderson before the Federation of the bird clubs of New England at Boston, Mass., Jan. 15, 1930. 21 p.

Bureau of Chemistry and Soils

- Publications issued by Chemical and technological research, Bureau of Chemistry and soil, and by the former Bureau of chemistry, from 1913 to 1930. 5 p. (Issued by Chemical and technological research)

Bureau of Dairy Industry

- Publications of the Department of agriculture relative to dairying, available for free distribution. Corrected to January, 1930. 5 p. (Dairy library list 2)

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS (Cont'd)

Extension Service

An extension program in range livestock and human nutrition for the western states. By W. A. Lloyd. 7 p. (Issued by Office of cooperative extension work)

Farmers' institutes, 1929. By J. M. Stedman. 5 p. Extension service circular 120. (Issued by Office of cooperative extension work)

Foreign agricultural extension activities: England and Wales, Germany, Norway, Italy, and Hungary. Abstracts from recent reports and publications received by J. M. Stedman. 20 p. Extension service circular 119. (Issued by Office of cooperative extension work)

State extension publications on home management. A selected list of references. Comp. by Edith J. Webb. 24 p. (Issued by Office of cooperative extension work)

What local leaders do: Kansas. A study of the activities of 171 local extension leaders in four countries. By M. C. Wilson and C. R. Jaccard. 19 p. Extension service circular 118. (Issued by Office of cooperative extension service)

Bureau of Home Economics

Publications of the Bureau of home economics... July 1923-January 1930, arranged by subjects. 16 p.

Bureau of Plant Industry

Eggplant culture. By J. H. Beattie. 5 p. (Issued by Office of horticultural crops and diseases)

General methods of plant-disease control for florists and gardeners. By Freeman Weiss. 8 p. (Issued by Office of horticultural crops and diseases)

Kale. By Ross C. Thompson. 4 p. (Issued by Office of horticultural crops and diseases)

The Kawano Wase variety of Satsuma orange. By Walter T. Swingle and T. Ralph Robinson. 6 p. (Issued by Office of horticultural crops and diseases)

Papaya culture. By T. Ralph Robinson. 5 p. (Issued by Office of horticultural crops and diseases)

Yields of spring-wheat varieties grown in plot experiments in the spring-wheat region in 1929. By J. Allen Clark and K. S. Quisenberry. 24 p. (Issued by Office of cereal crops and diseases)

AGRICULTURAL LIBRARY NOTES

The present issue has been delayed pending receipt of the replies to the recent questionnaire in regard to the usefulness of AGRICULTURAL LIBRARY NOTES. The replies received seemed to indicate that its usefulness is sufficient to justify the time and expense connected with its publication. It will therefore be continued until further notice. It is hoped that it will be possible hereafter to issue a number each month with the possible exception of the summer months. The Editor will be much pleased at any time to receive suggestions as to the kind of material which it is desired to have included. The cooperation of our readers in furnishing articles and news notes for future issues is most earnestly requested.

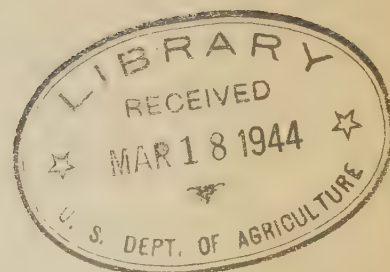
Editor.

11a
Reserve

SUNFLOWER
(*Helianthus Annuus*)

Compiled by

Marjorie F. Warner
Bibliographer, Bureau of Plant Industry Library
U. S. Department of Agriculture



Agricultural Library Notes, v. 5, no. 1-3, January-March, 1930
Supplement

Washington, D. C.
U. S. Department of Agriculture Library
1930

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Note. This list does not aim to be inclusive or exhaustive, merely to bring together a selection of references relating to the sunflower as a crop plant. The titles have been compiled from the catalogues of the U.S. Department of Agriculture Library and Plant Industry Library, and from the Experiment Station Record. The material on sunflower oil, which is chiefly to be found in works on the chemistry and technology of oils, is not included here except as treated under seed growing or in general articles. Many technical botanical contributions have been omitted, as well as more popular and trivial material.

SUNFLOWER (HELIANTHUS ANNUUS)
Select List of References

I. CULTIVATION AND UTILIZATION

General

- Granato, L.
O girasol; sua cultura e exploração industrial. Bol. Agr. São Paulo 25:47-61, 95-113. 1924. (v.25, no.1-4 numbered "ser.24a")
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Helianthus annuus ... The sunflower in India. Agr. Ledger 14:1-11. 1907.
- Opazo G., R.
Cultivo de la maravilla. Chile, Serv. Agron. Region. y Enseñanza Agr. Ambul. Bol. 29. 8 p. 1917.
- Stockberger, W. W.
Sunflower. U. S. Dept. Agr. Bur. Plant Indus. Off. Drug Pois. and Oil Plant Invest. [Mimeographed leaflet] 3 p. 1924?
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El girasol (Helianthus annuus). Bol. Ofic. Sec. Agr. y Fomento Mexico VI, 8:635-639. illus. 1926.
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The sunflower plant: its cultivation, composition, and uses. U. S. Dept. Agr. Div. Chem. Bull. 60. 31 p. illus. 1901.

Crop Studies

- Gaines, W. L., and Nevens, W. B.
Growth-equation constants in crop studies. Jour. Agr. Research 31: 973-985. 1926.
Experiments with maize and sunflower.
- Kuznetsov, D. S.
Ernteerträge der sonnenblumen. Zhurn. Opytn. Agron. Iugo-Vost. (Jour. Exp. Landw. Südöst. Eur.-Russl.) 7(1):141-155. 1929.
Russian with German summary.

Silage

1. Sunflower Crop

- [Sunflowers for silage] Wisconsin Agr. Exp. Sta. Bull. 319:24-25; 323:84-85; 339:95-101; 352:47. illus. 1920-23. (In Wisconsin Agr. Exp. Sta. Ann. Rept. 1918/19-1921/22)

- Atkinson, A., and Nelson, J. B.
Growing sunflowers in Montana. Montana Agr. Exp. Sta. Bull. 131.
11 p. 1929.
- Holden, E. D., and Delwiche, E. J.
Sunflowers for silage. Wisconsin Univ. Coll. Agr. Ext. Serv. Circ.
220. 16 p. illus. 1928.
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Growing sunflowers for silage in Idaho. Idaho Agr. Exp. Sta. Bull.
141. 12 p. illus. 1926.
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Sunflowers under irrigation in Montana. Montana Agr. Exp. Sta.
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Cultural experiments with sunflowers and their relative value as a
silage crop. West Virginia Agr. Exp. Sta. Bull. 204. 16 p. illus.
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49-52. illus. 1920.
- Quesenberry, G. R., Cunningham, O. C., and Foster, L.
The culture and feeding of Russian sunflowers. New Mexico Agr.
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- Schäfer, E. G., and Westley, R. O.
Sunflower production for silage. Washington Agr. Exp. Sta. Bull.
162. 20 p. illus. 1921.
- Thompson, M. J.
[Sunflowers for silage] Minnesota Agr. Exp. Sta., Duluth Substa.
Bien. Rept: 1922/23:11-14, 1924; 1924/25:11-15, 1926; 1926/27:
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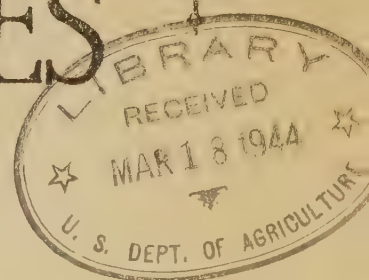
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ISSUED MONTHLY
BY THE

UNITED STATES DEPARTMENT OF AGRICULTURE LIBRARY
WITH THE COOPERATION OF THE LAND GRANT COLLEGE
AND STATE AGRICULTURAL EXPERIMENT STATION LIBRARIES
WASHINGTON
D. C.

AGRICULTURAL LIBRARY NOTES

Vol. 5.

April-June, 1930

No. 4-6

AGRICULTURAL LIBRARIES SECTION MEETING

The meeting of the Agricultural Libraries Section was held at the Citrus Experiment Station, Riverside, California, on Thursday afternoon, June 26, 1930.

The free transportation of the members of the section from Los Angeles was furnished by the Los Angeles Chamber of Commerce and the Riverside Chamber of Commerce. A stop was made at the Pomona College Library where a short address was made by Mr. Willis H. Kerr, Librarian, explaining the relation of the libraries of this group of colleges. Another stop was made at Riverside for lunch at the famous Mission Inn with a brief address of welcome from the Mayor of Riverside, Mr. Long, and a visit to the Riverside Public Library.

Upon reaching the Citrus Experiment Station, the meeting was called to order by the Chairman, Mrs. M. J. Abbott, Agricultural Reference Librarian, University of California, who introduced Dr. L. D. Batchelor, Director of the Station. He welcomed the section and briefly outlined the work of the Station. He was followed by H. J. Webber, who spoke on "The Relation of a Research worker to the Librarian."

"The Library to the research worker is an important set of tools most necessary in the prosecution of his studies; and to him the librarian is the skilled mechanic charged with the duty of keeping the tools in serviceable condition and ready for use.

"I do not conceive that it is a necessary part of the librarian's duty to know the intricate mechanism of each tool and all of the tools that have been devised. It is not and cannot be successfully made the duty of the librarian to know the literature bearing on any intricate scientific problem.

"It is the duty of the research worker to look up and keep records of the literature on his own special subject and to furnish lists of the books, periodicals, and papers that his work demands and which he desires to have made available in the library. It is up to him to make his own special bibliographies unless the librarian has the time available and the desire to be authorized to cooperate with him in the preparation of such a bibliography.

"It is the librarian's duty to procure the literature desired so far as possible through purchase, exchange or loan, and to assist the research worker by servicing and maintaining the collection and by making it easily accessible.

"It is the librarian's function also, so far as possible, to maintain a general collection of the collateral literature most likely to be needed, such as encyclopedias and the like.

"These are, I believe, the generally recognized functions and mutual relation of the research worker and librarian and barring the occurrence occasionally of an individual who is a 'confirmed grouch' the relationship is always pleasant and mutually helpful.

"The research worker is, however, coming to demand more of his library. Too often the paper he desires is old and out of print and cannot be obtained, or it forms a small part of a large volume or set, too expensive to purchase and too large to mail readily or too rare to be trusted in the mails. He must thus either travel to the large library, perhaps very distant, trust to imperfect reviews, or go without. The remedy is a photostat copy of the paper required. This method already has grown to important proportions but is not yet perfected. A few large libraries, one or two in a country, should establish photostat bureaus to furnish copies of any paper desired and such bureaus should be self sustaining through a charge made, sufficient for maintenance of service. International cooperation of library photostat bureaus would make all the publications of the world easily available. Were such means available the citrus literature of the whole world that has appeared through the centuries could be made available at any place for a very few thousands of dollars and would thus be within the reach of small stations. Were it possible to order such comparatively complete sets of citrus literature, I feel certain that a hundred sets could be placed in California.

"We look to the American Library Association to stimulate the establishment of such library photostat bureaus in a few great libraries in the world so that this boon may be made available to encourage the isolated scientists.

"Another service that the American Library Association should make possible and which research workers greatly need is that of a translation bureau. Is it chimerical to assume that one or two large libraries in the United States could be designated through such an association as yours to maintain translation bureaus for the general service of all libraries, such service to be maintained by the charges for translations? Have you ever paused to consider that a large proportion of the research man's time is given to the study of languages and the laborious reading of texts he can only dimly understand? Have you ever considered the tremendous loss to humanity that the loss of this amount of time of the most efficient scientific workers of the world means? The supplying of a standard place to obtain fair translations at a reasonable price would be a godsend to investigators and a boon to humanity. The research worker looks to the library to supply this service. Must he look in vain?"

Miss Nelle U. Branch, Librarian of the Branch of the College of Agriculture, University of California, at Davis, next spoke on "The Agricultural Libraries of the University of California" in part as follows:

"The University of California was established in 1869. The College of Agriculture was one of the first departments to be organized. As early as 1877 Professor E. W. Hilgard recommended that provision be made for experimental work in the main agricultural sections of the state. As a result, we have two stations in localities differing in climatic conditions from that of Berkeley. The Citrus station was established at Riverside; and the other, known as the Branch of the College of Agriculture, is on the University Farm at Davis.

AGRICULTURAL LIBRARIES SECTION MEETING (Cont'd)

"The College of Agriculture at Berkeley, with the completion of the new Giannini Hall, will be housed in three main buildings. The other two are known as Agricultural Hall and Hilgard Hall. The library interests are served at present by an Agricultural Reference Library in the main library building. Related to this group is the new Life Science Building, which will have its own library, including the centralization of all the scattered departmental collections.

"The Agricultural Reference Library at Berkeley is really the key to the resources of the main library for the whole College of Agriculture, including its stations. In the room assigned to this library much reference material is on open shelves. Tables for the use of students and faculty are conveniently located. Mrs. Abbott or one of her assistants is ready at all times to give assistance in placing the material in the main stack at the disposal of those who request it. The Davis workers extoll the spirit and excellence of the service which is given them at the Agricultural Reference Desk during their necessarily limited time in Berkeley. Much inter-library loaning of books is eliminated through the use of this room.

"The University of California library sets aside a certain proportion of funds for the purchase of agricultural material. This comparatively small amount is used for magazine continuations. The bulk of the funds comes from the College of Agriculture, which designates library funds for general agricultural books to be used for all departments. The departments may use their own funds to purchase books to be kept within the departments permanently.

"The College of Agriculture has a Library committee of five. One member is chosen from the Davis faculty. This member then serves as executive chairman of a Davis library committee of five. The chairman must pass upon the purchase of all books. The committee as a whole controls the policy of the library. This committee has been responsible for the rapid growth of the library at Davis.

"The library of the College of Agriculture at Davis is practically independent in operation from the main library at Berkeley. Material aid is given in reference work; the resources of the library are supplemented through inter-library loan for use in research; and orders for books and exchanges are placed through the order department at Berkeley.

"The funds are from the state appropriation to the College of Agriculture and from endowment funds for the aid of agricultural research. There is no budgeting of funds to departments. So far the first thought has been to obtain the scientific publications most needed for ready reference. Duplication is made for files in the University of California Library, when the publication is frequently used or when it is difficult to obtain through inter-library loan. A fair proportion of the funds is used for the purchase of books and magazines for student reading. Some of the instructors aid the library in interesting the student in widening the intellectual horizon. Many departments buy from their own funds material for departmental use. Some departments contribute to the growth of the general collection such funds as are temporarily not needed for other purposes, feeling that the library is their best laboratory. There are three collections outside the main library.

The herd book files of the department of Animal Husbandry, and the Veterinary Science collection are housed in the new Animal Science Building. The pomology Division has the nucleus of a collection of historical works on horticulture.

"A library was started soon after the organization of the University Farm School in 1909, but it was not until 1922 that a general interest was taken in building a working collection. Since that time provision has been made for more adequate funds. At present the library has approximately 23,000 bound volumes, and receives 460 periodicals currently. The inter-library loans for the present year were 300. Of these, 19 were from the U. S. Department of Agriculture and 50 from the California State Library. The Library of Congress classification is used. It is planned to have the working of the catalog and charging system so similar to that at Berkeley that faculty and students may transfer without inconvenience. The library committee has worked steadily on the policy for development. The rapid accessions have been made with a definite plan to cover certain fields and needs. An effort has been made to give both students and faculty an active part in the building of the library.

"There is at Davis a faculty and staff of 125, with a student body of 410. The University Farm controls 1000 acres of land, with an investment in buildings of \$1,500,000. There are forty-five buildings of major importance. Six of these are permanent structures."

Miss Margaret Buvens, Librarian of the Citrus Experiment Station, spoke next on the Citrus Experiment Station Library, as follows:

"The Citrus Experiment Station Library was organized in 1917, about the time the staff occupied the present buildings, and the nucleus of the library was a small collection of books that had been a part of the Southern California Pathological Laboratory at Whittier. Mrs. Abbott was the first librarian and the one who organized and catalogued the library in its present form.

"Since then, the library has been developing along the same lines as the station has developed, being planned primarily as a working library for the staff. At the same time, due consideration has been given to rounding out the collection in all the sciences that underlie horticulture so that future needs can be taken care of. Free use is made of inter-library loan privileges, especially from the University Library, and this service is greatly appreciated by the staff. The library now contains about 5500 bound volumes and several thousand pamphlets. Most of this material is filed in the library itself, although some sets are deposited in the different laboratories and a large number of the books and periodicals on chemistry are filed in the Rubidoux Laboratory where the Chemistry Department is housed.

"The Dewey system of classification is used, and Library of Congress printed cards are bought whenever available. A Library Committee of three members, appointed by the Director, passes on all books purchased and advises the librarian on general policies.

"As in any research library, the files of journals and serial publications are a most important feature. The library receives currently over 500 serial publications, 267 of these being 'periodicals' as we usually understand the term. The back files of those journals that are

AGRICULTURAL LIBRARIES SECTION MEETING (Cont'd)

most used for reference are being added as fast as funds permit, and the most important journals and indexes for making this material available are on file. The publications of the U. S. Department of Agriculture and of the State Agricultural Experiment Stations are all received and the files are complete so far as available. Many valuable serial publications come to the library by exchange. The papers giving the results of work done at the station appear either in some scientific journal or as Station bulletins, and reprints are issued as exchanges to institutions and libraries in many parts of the world. There are now 103 institutions on the exchange list.

"The only special collection maintained by the library is one of old and rare books on tropical horticulture, and particularly on the citrus fruits. The hope is eventually to have a more or less complete historical collection of published material on this subject. An opportunity was given the library this year to add to this collection through purchases made at first hand in Europe by Dr. H. S. Reed of the Station staff, and some interesting items have already been received."

After this, there followed a short business meeting at which the reports of the committees were read.

The first of these, the Committee on Relationships, Chairman, Charles H. Brown, follows:

"A committee on relationships was appointed at the meeting last year. The duties of this committee were to consider cooperative work and also to consider the relationship of the U. S. Department of Agriculture Library to land-grant colleges and experiment stations.

"For many reasons, part of which have to do with work on the Land-grant Survey, the chairman of the committee has not attempted to call a meeting of the committee this year nor to communicate with the committee in regard to methods of procedure. It is hoped that the committee can commence actively on the work next October in the beginning of the school year. Until this time the committee requests your indulgence. It does hope that all of you will read Miss Barnett's excellent paper published in Agricultural Library Notes, volume 4, numbers 5 and 6, May and June, 1929. This paper emphasizes the work of the committee and covers the points on which we should like your advice later."

There followed the report of the Committee on Cooperative Bibliographical Aid for 1930, Mary G. Lacy, Chairman:

"The committee has compiled nine lists since the 1929 report was made. These have been published in Rural America, sometimes under the title 'Literature of Rural Life', and sometimes under the title 'Things in Print'.

"The only other work in the line of Cooperative Bibliography which the Committee has to report to the section is the actual completion of Section 1, part 1, of the index to the Sources of the State Official Agricultural Statistics of California, Part 1, Fruits, Vegetables and Nuts. Section 2 of this part will be issued as soon as it is possible to do so. Part 5, which was compiled under the direction of Mrs. M. J. Abbott, Agricultural Reference Librarian, University of California, and which is an index to the unofficial sources of the Agricultural Statistics of California, is almost ready. We expected to have it ready for this

AGRICULTURAL LIBRARIES SECTION MEETING (Cont'd)

meeting, but owing to a tie-up in our duplicating section, it was not possible for it to be finished. Parts 2, 3, and 4 are finished so far as the indexing is concerned. They will be issued as rapidly as the typing and the work of the duplicating section can be done."

The chairman then announced the names of the committee for the Year 1930-31 as follows:

Chairman, Louise O. Bercaw, Bureau of Agricultural Economics, U. S. Department of Agriculture; Bertha E. Herse, Oregon State Agricultural College; Jane Frodsham, College of Agriculture, University of Missouri; Bess Lowry, Iowa State College; Ex-officio, Julia Wright Merrill, Extension Officer, American Library Association.

The report of the Oberly Memorial Fund Committee for 1929-30 was read by title only, as it is published elsewhere in the Proceedings of the American Library Association.

The Chairman then called for the Report of the Nominating Committee. The Chairman, Miss Nelle U. Branch, stated that the Committee, consisting of Miss Cora L. Feldkamp, Miss Kathryn M. Stanford and herself, in view of the fact that it had been agreed that at least one continuing officer was desirable for the section and that the present secretary, who had served for several years, had asked to be relieved, had decided to recommend that a new office be created at this meeting, to be known as Permanent Honorary Chairman. If the section approved of this the committee wished to submit the following slate:

Permanent Honorary Chairman, Miss Claribel R. Barnett, Librarian, U. S. Department of Agriculture; Chairman for 1930-31, Mr. W. W. Ellis, Librarian, College of Agriculture, Cornell University; Secretary, Miss Emma B. Hawks, Assistant Librarian, U. S. Department of Agriculture.

The Chairman submitted the recommendation for the new office and the nominations to the section. It was moved, seconded and unanimously passed that the secretary be directed to cast the vote of the section to accept the recommendation and nominations of the committee as submitted. Miss Lucy M. Lewis then moved that the section give the retiring Secretary a rising vote of thanks for her services during the years of her tenure of the position. This motion was seconded and a rising vote of thanks was given.

A resolution of thanks was then unanimously passed to the Los Angeles Chamber of Commerce and the Riverside Chamber of Commerce for their kindness and generosity in providing free transportation for the members of the section from Los Angeles to the Citrus Experiment Station.

The remainder of the meeting was devoted to a symposium on material of Primary Importance on the Economic Aspects of Agriculture. These papers, many of which were accompanied by lists of titles of addresses of agencies, had all been mimeographed and were available for those present. Taken together, they were designed to constitute a basic list of the sources of material in the economic aspects of agriculture published by: 1. The Federal Government; 2. The States; 3. Societies and Associations; 4. Foreign Governments. The titles of these papers follow:

AGRICULTURAL LIBRARIES SECTION MEETING (Cont'd)

Publications of the Bureau of Agricultural Economics and other agencies of the U. S. Department of Agriculture. By Margaret T. Olcott, Assistant Librarian, Bureau of Agricultural Economics, U. S. Department of Agriculture.

Publications of the Federal Farm Board. By Katharine Jacobs, Cataloguer, Bureau of Agricultural Economics, U. S. Department of Agriculture.

Publications of the U. S. Department of Commerce and other government agencies, exclusive of the U. S. Department of Agriculture. By Caroline G. Gries, Assistant Agricultural Statistician, Bureau of Agricultural Economics, U. S. Department of Agriculture.

State Department of Agriculture Publications. By Mary F. Carpenter, Reference Assistant, Bureau of Agricultural Economics, U. S. Department of Agriculture.

Agricultural Experiment Station Publications. By Cora L. Feldkamp, Librarian, Office of Experiment Stations, U. S. Department of Agriculture.

Some knots and what nots in agricultural extension publications. By Lucy M. Lewis, Librarian, Oregon State College.

Society and association publications of primary importance in the field of agricultural economics. By Louise O. Bercaw, Reference and Bibliographical Assistant, Bureau of Agricultural Economics, U. S. Department of Agriculture.

How to discover and how to obtain foreign documents of importance in the field of agricultural economics. By Emma B. Hawks, Associate Librarian, U. S. Department of Agriculture.

This concluded the program and the Chairman adjourned the meeting.

Miss Buvens then invited the Section to visit the library of the Citrus Experiment Station, after which iced orange juice was served on the veranda in full view of the wonderful panorama of lofty mountains with the orange groves at their feet. After this, the party was driven to the orange groves where each person was allowed to pick an orange and where some of its interesting habits of growth were explained.

It was with great reluctance that the party took their places again in the stages for the 60 mile drive back to Los Angeles, after what was considered a unique and profitable meeting.

Mary G. Lacy,

Secretary.

RELATION OF THE WASHINGTON STATE EXPERIMENT STATION LIBRARY TO THE
WASHINGTON STATE COLLEGE LIBRARY

By W. W. Foote, Librarian, Washington State College.

When I came to the Washington State College Library I found that the Experiment Station Library was very small and insignificant, consisting of only a small collection of research books together with the usual government and state bulletins, circulars, etc. I had one advantage, however, and that was that the Experiment Station Library was under my direct control and housed in the main stacks of the library. This section was kept locked and only station men were allowed to use the publications. The Experiment Station director in charge when I came resigned after a year or two and Dean Johnson, the present director, was appointed. It is largely because of his ready cooperation and assistance that I was able, about ten years ago, to make the following changes in connection with the Experiment Station Library. We first wrote to the Chief of the Office of Experiment Stations in Washington, securing his opinion that such a procedure was allowable and would be approved by him. I then proceeded to do what re-cataloguing was necessary and the entire Experiment Station Library was absorbed in the main library. A ruling was made that all members of the college faculty, including all the eleven schools and colleges, should have the same freedom in using this material that they have in using the entire library. This has proved of great assistance to many, enabling them to use research books that otherwise they would have been barred from. We have been very enthusiastic over this change and it seems the only logical plan. I might cite many excellent reasons for approving of such a plan, first the avoiding of unnecessary duplication of expensive sets; second, making the material available to the entire faculty; third, the simplifying of the cataloguing and listing; fourth, the pooling of interests in selection; fifth, economy of labor of handling and service, and many other points which I will not take time to enumerate.

To make the agricultural and experiment station material of more value and more available to the College of Agriculture and Experiment Station workers, I have given up one entire level of our steel stacks, having a capacity of 40,000 bound volumes, and on this level which is immediately off the Agricultural seminar room we have housed the entire collection of agricultural and research material including periodicals and continuations dealing with the subject. Another feature which we started several years ago was the campus mail service, delivering the periodicals several times a week to the desk of each professor. The messenger picks up the magazines each time they have been read and passes them on to the next one on the list. This has been of great value to our research and faculty members and has been greatly appreciated.

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THESES OF SCIENTIFIC SUBJECTS PRESENTED IN 1930 FOR THE DEGREE OF
MASTER OF SCIENCE, OREGON STATE AGRICULTURAL COLLEGE.

List supplied by Lucy M. Lewis, Librarian

Vocational guidance of farm boys in the Willamette Valley, Oregon.
Russel Monroe Adams.

A study of the economic status of the ring-necked or Chinese pheasant
in Oregon.
Thomas Cort Allen.

The chemical changes resulting from the application of sulphur and sul-
phates on alkali soils.
Oscar FitzAllen Bartholomew.

The removal of soluble salts from Virgin black alkali soils.
Walter Vernon Black.

Food requirements at minimum cost in Portland, Oregon, for use in
planning family budgets.
Frances Ann Clinton.

Some factors concerning research by cooperatives.
Harlan Julien Emery.

Commercial propagation and biological studies of two parasites on the
codling-moth.
Douglas Grayson Gillespie.

An investigation of the glare of automobile headlights.
Benjamin Elijah Harris.

Hastening the after-ripening and germination of seeds of the wild rose,
Rosa Rubiginosa.
William Brewster Hayes.

Individual clothing budgets for relief and standard income levels for
various ages and for both sexes.
Helen Lynn Jackson.

The flow of water through certain types of water-bearing materials as
affected by well casing perforations.
Arthur Solomon King.

A study of warehousing practices in Oregon.
Paul Xenophon Knoll.

A study of some alfalfa soils.
Rulon Daniel Lewis.

THESES ON SCIENTIFIC SUBJECTS PRESENTED IN 1930 FOR THE DEGREE OF
MASTER OF SCIENCE, OREGON STATE AGRICULTURAL COLLEGE.

(Cont'd)

Quality and palatability of cheven.

Ross Herbert Miller.

Soil nitrogen and organic matter as affected by Australian winter peas.

Merrill Mahonri Oveson.

Some crown gall inoculation experiments with special reference to the stomata as possible ports of entry.

Frank Alexander Patty.

A study of powdered skim milk with special reference to its household use.

Helen Pixton.

An investigation of the oil from wood of Port Orford cedar (*Chamaecyparis Lawsonia*) with special reference to the fraction boiling between 200 degrees centigrade and 230 degrees centigrade.

Elsie Reed.

A reorganization plan for a stock farm in Benton County.

James Bruce Sifton.

A study of micrococci and streptococci in relation to infectious mastitis in dairy cows.

Aileen Sprague.

The use of ammonium sulphate as selective weed spray.

Edmund Stephens.

Furs: Their source, preparation, and use for clothing.

Blanche Whittier Stevens.

An economic analysis of prices and consumption of potatoes in Portland.

Bruce Bennett Strachan.

The design of gravity masonry dams.

Lansing Su.

Plural nature of Vitamin B in the potato.

Lydia Tarrant.

Kiln drying problems in the Douglas Fir Region.

Glenn Voorhies.

Permanency in Oregon's Forest Industries.

Sinclair Albert Wilson.

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MISCELLANY

The International Congress of Women's Institutes will be held at Antwerp, Belgium, August 10-11, 1930, under the honorary presidency of Her Royal Highness, the Duchess of Brabant. The International Commission of Women's Institutes was founded during the International Congress of Rural Women's Organizations at the time of the Ghent Exhibition. At the general meeting held at Berne in 1928, it was decided to hold an International Congress during the International Exhibition at Antwerp in 1930. All members of rural women's organizations the world over are invited to take part in this congress, as well as all persons interested in matters affecting women living in country districts.

The first four volumes in the "Smithsonian Scientific Series" have just appeared. These have the following titles: Vol. 1 - The Smithsonian Institution; Vol. 2 - The Sun and the Welfare of Man; Vol. 3 - Minerals from Earth and Sky; Vol. 4 - The North American Indians. The scholars of the Smithsonian Institution, under the editorship of ^{the} Secretary, Dr. Charles Greeley Abbot, are preparing this series of books to serve as a pocket edition of the Institution in all its activities. "The books are rich in illustrations and represent the studied effort of the nation's scientific institution to bring to every man in his home a panorama of its contribution to man's progress in the sciences - a progress which has revolutionized man's life and which promises still greater wonders to come. The set will contain twelve volumes."

A "Scheme for the classification of agricultural engineering matter" is contained in the International Review of Agriculture, part 1, Monthly Bulletin of Agricultural Science and Practice, for December, 1929, year 20, no. 12. This scheme constitutes the "Agricultural Engineering" division of a comprehensive system of agricultural classification prepared in the first place by Dr. Sigmund Von Frauendorfer, as his master's thesis at the University of Illinois Library School. Doctor Frauendorfer is now Acting Librarian of the International Institute of Agriculture, Rome. In the revised edition of the "Agricultural engineering classification" Doctor Frauendorfer has had the help of the agricultural engineering section of the International Institute of Agriculture.

Two important articles on bibliography have recently been published. The first, by Adelaide R. Hasse, of the Brookings Institution, entitled "Bibliography of Today and Tomorrow" appeared in the April issue of "Special Libraries". The second, by Prof. William A. Hamor and Dr. Lawrence W. Bass, of the Mellon Institute of Industrial Research, appeared in the April 11, 1930, issue of "Science", p. 375-378 and is entitled "Bibliochresis: The Pilot of Research". Bibliochresis is defined as the scientific use of literature. Librarians will find much food for thought in both articles.

Three new numbers have recently appeared in the service "Prominent Men I Have Met", by Prof. L. H. Pammel, Iowa State College, Ames. These are nos. V, VI and IX, and relate to Spencer Ambrose Beach, Dr. Charles Edwin Bessey, and Henry Cantwell Wallace, respectively.

MISCELLANY (Cont'd)

The Proceedings of the 43d annual convention of the Association of Land-Grant Colleges and Universities, held at Chicago, Nov. 12-14, 1929, were issued in April. The Proceedings this year do not include a bibliographer's report. Agricultural librarians will find many of the papers of particular value as a means of gaining information in regard to the problems of the land-grant colleges. In going over the proceedings it will be helpful to read the editorials on the convention which appeared in the Experiment Station Record for January and February, 1930.

An interesting and valuable review of "Agricultural Education in the United States" by Whitney H. Shepherd is contained in the editorial pages of the Experiment Station Record for March, 1930.

The International Institute of Agriculture has appointed, as from January 1, 1930, the firm of Bestetti & Tumminelli, S. A., 32 via Michelangelo Caetani, Rome (115), to be sole publicity and sales agents for its publications in all countries.

Revised editions of their Library Leaflet no. 1, "Books on General Agriculture", and their Library Leaflet no. 2, "Books on Horticulture", were issued in March, 1930, by the Extension Service of the Massachusetts Agricultural College.

The Department of Agriculture, Sydney, New South Wales, has issued a pamphlet entitled "List of Publications of the Department. Part I - Sale Books and Bulletins. Part II-Free Publications."

"Extension Service Review" is the title of a new illustrated monthly issued by the Extension Service of the U. S. Department of Agriculture. It will serve as the official organ of the Extension Service and will take the place as far as possible of the mimeographed pamphlets previously issued by that office. "The 4-H Club Leader", "Home Demonstration Review", "This Looks Good", and other similar leaflets have been suspended. The subscription price is fifty cents a year. The first number was issued in May, 1930.

The Yearbook of the U. S. Department of Agriculture for 1930 was issued in April, 1930. It contains the following explanation in regard to the omission of the Yearbook for 1929: "Beginning with this issue, the Yearbook of Agriculture, in conformity with the practice generally followed in the publication of yearbooks, is designated by the year in which it is printed rather than by the year surveyed. Thus the present volume surveys agricultural conditions in 1929. The new system of dating more truly indicates the strictly up-to-date character of the volume. This procedure does not break the continuity of the statistical and other material published, nor does it involve any omission in the Yearbook series."

The Agricultural Extension System of the United States. By Clarence Beaman Smith, Chief, Office of Cooperative Extension Work, U. S. Department of Agriculture, and Meredith Chester Wilson, In Charge, Extension Studies and Teaching, Office of Cooperative Extension Work, U. S. Department of Agriculture. 402 p. il. New York, John Wiley & Sons, 1930. (Books on Education Series)

"Designed to be informative and instructive to extension workers in agriculture and home economics now in the field, to students in schools and colleges preparing for extension work and to others throughout the world who desire to keep informed on significant matters affecting rural progress... The book presents not only the organization of agricultural extension work in the United States but also something of the accomplishments attained in that work. It further discusses the detailed results of substantial studies in more than a third of the states to determine the relative effectiveness and costs of various means, agencies and methods used in extension... The authors of the book have been engaged in the promotion, supervision and administration of extension work for more than twenty years."

Comparative Pupil Achievement in Rural, Town, and City Schools. A study conducted by M. J. Van Wagenen for the Department of Education, State of Minnesota. 144 p. Minneapolis, The Univ. of Minn. Press, 1929.

"The achievement survey here presented was undertaken at the request of the Minnesota State Department of Education to determine quantitatively the worthwhileness of two outstanding policies of the Department; the advocacy of an increase in the length of the school year from seven to nine months for rural schools and the encouragement of consolidation of small rural schools. More than 150 town and city school systems in every part of the State and over a thousand rural schools scattered throughout nearly every county in the State accepted an invitation to cooperate in this project." (Preface)

George Christian Roeding. "The father of Smyrna fig culture in California." The story of California's leading nurseryman and fruitgrower. A tribute written and prepared by direction of the Roeding Memorial Committee under the authority of the California Association of Nurserymen. By Henry W. Kruckeberg. 109 p. il.. Los Angeles, California, Association of Nurserymen, 340 S. San Pedro Street, 1930.

Harvey W. Wiley. An autobiography. 339 p. il. Indianapolis, The Bobbs Merrill Co., 1930.

Doctor Wiley was connected with the U. S. Department of Agriculture from 1883 to 1912, as Chief of the Division of Chemistry, later the Bureau of Chemistry.

The New Evolution - Zoogenesis. By Austin H. Clark, U. S. National Museum. 297 p. il. Baltimore, Williams & Wilkins, 1930.

In this book Mr. Clark, who for a quarter of a century has studied living and fossil forms all over the world, presents an entirely new view of the evolution of life and of man's relation to the living world. A new concept is given to the world and to it the author has given a new word - zoogenesis.

The New Farm Legislation. Proceedings of a Round Table Conference, Columbus, Ohio, October 15, 1929. 28 p. mimeogr. Washington, D.C., Agric. Service Dept., Chamber of Commerce of the United States, 1929.

"There was a dual objective in holding this round-table conference on 'The New Farm Legislation'. The first was to present an occasion on which a representative of the Federal Farm Board might convey to business men attending the mid-year conference of the Chamber of Commerce of the United States a general statement embodying the plans and policies, to the extent they have been developed, of the Farm Board for putting the Agricultural Marketing Act into operation. The second objective was to give opportunity to these business men, who would be directly or indirectly affected by such policies, to ask questions of the Farm Board representative." (Foreward)

Principles of Agricultural Credit. By Virgil P. Lee, Professor of Marketing and Finance, Agricultural and Mechanical College of Texas. 405-p. New York, McGraw-Hill Book Co., 1930.

Discusses the origin of credit, the factors which affect the flow of credit, the various uses of credit by farmers, the methods used by financing institutions in obtaining funds from original investors and in making loans, the cost of credit and the relation of the federal and state governments to agricultural credit.

Food Preservation. A textbook for student, teacher, home-maker and home factory operator. By W. W. Chenoweth, Professor of Horticultural Manufactures and Head of the Department, Massachusetts Agricultural College. 344 p. il. New York, John Wiley & Sons, 1930.

The material included in this volume is largely the result of fifteen years of teaching the subject together with sufficient extension work to familiarize the author with the major problems of the teacher, the home-maker, and the home factory operator.

Essentials in the Selection of Meat for Students of Home Economics. By Viola M. Bell, formerly Associate Professor, Foods and Nutrition Department, Iowa State College, and Maurice David Helser, Professor of Animal Husbandry, Iowa State College, In Charge of Meat Investigation, Iowa Agricultural Experiment Station. 121 p. il. New York, John Wiley & Sons, 1930.

Prepared to meet the needs of the homemakers, college students, and contestants in meat-judging contests.

Marketing and Housework Manual. By S. Agnes Donham, Instructor in Simmons College and Garland School of Homemaking, Boston. rev. ed. 249 p. Boston, Little, Brown & Company, 1930.

This volume, which is the result of twenty years' study, is in two parts: Part I. Marketing and Menu Making; Part II. Housework Rules and Directions. The book was originally published in 1917. New conditions, new knowledge, and new methods have made it desirable to revise the work thoroughly and to add important new material. The first edition contained 241 pages.

Conservation of our Natural Resources. Based on Van Hise's "The Conservation of Natural Resources in the United States!" By Louis Havemeyer, Editor, and Gar A. Roush, Frederick H. Newell, Henry S. Graves, George S. Wehrwein, Paul G. Rodington, and Elmer Higgins. 551 p. New York, The Macmillan Company, 1930.

The rewriting of Van Hise's book, published in 1910, was undertaken with the desire of presenting to the public the problems of conservation confronting the country in 1930. An expert in each of the four fields covered; namely, the minerals, the waters, the forests, and the lands, undertook the revision of that particular portion of the book. A section on the conservation of wild life, which did not appear in the original edition has been added.

New England Game Conference. Held under the auspices of the Massachusetts Fish and Game Association, Hotel Statler, January 11, 1930. 71 p. Cambridge, Mass., Printed for the Mass. Fish & Game Ass'n by the Cosmos Press, 1930.

The Book of Bird Life. A study of birds in their native haunts, with photographs by the author. By Arthur A. Allen, Professor of Ornithology at Cornell University. 426 p. New York, D. Van Nostrand Co., 1930.

The Romance and Rise of the American Tropics. By Samuel Crowther. 390 p. il. Garden City, N. Y., Doubleday, Doran & Co., 1929.

"The Caribbean countries are in transition. They have passed rather definitely from the period of the soldier or fortune and continuous political revolution to the period of the American engineer and comparative political stability. The potential wealth of these countries is being developed in a broad and scientific manner. Wealth and purchasing power are being created as they were created in the United States. The great American experiment is being tried and is succeeding. An economic conception is making a conquest." (Foreword)

Fitting Farm Tools. By Louis M. Rochl, Teacher and Supervisor of Farm Shop Work, N. Y. State College of Agriculture, Ithaca. 102 p. il. Milwaukee, The Bruce Pub. Co., 1930.

Object is to assist both the agricultural student and the farmer is knowing how to equip his shop, and how to do such jobs as grinding and sharpening cutting tools, fitting tool handles, and forging simple steel tools.

Economic and Social Aspects of Federal Reclamation. By Dorothy Lampen. A dissertation submitted to the Board of University Studies of the Johns Hopkins University in conformity with the requirements for the degree of Doctor of Philosophy, 1929. Baltimore, The Johns Hopkins Press, 1930.

The Origin of our Domestic Animals. A series of six radio talks. By Alfred Wolf. Pittsburgh, University of Pittsburgh, 1930. (Radio Publication No. 61)

AMERICAN BOOKS (Cont'd)

How to Grow Roses. By Robert Pyle, J. Horace McFarland, and G. A. Stevens. 17th ed. enlarged and entirely rewritten. 210 p. il. New York. The Macmillan Company, 1930.

This edition "is essentially a new book, for it has now been entirely rewritten, as well as provided with an unusual richness of illustration. The author of the earlier editions has associated with himself in this edition two men who have worked hand in hand with him for a dozen years in building the American Rose Society into a country-wide, even a world-wide, organization of rose-lowers.... In this work they have come into contact with amateur rose friends all over the world and it is the reflection of the resulting experiences that is embodied in this new-old book." (Introduction) An unusually extensive bibliography is given on pages 198-208. The libraries in which the books may be consulted are indicated in the list.

The Rose Manual. An encyclopedia for the American amateur. By J. H. Nicolas. 335 p. Garden City, N.Y., Doubleday, Doran & Co., 1930.

This work, which covers the entire rose field, "contains unique and invaluable full-color charts never before published in this country, with scale gradations which reproduce the famous Graveriaux color plates for color identification and description."

Rose Garden Primer. By Eber Holmes. 208 p. il. New York, De La Mare, 1930.

Written "in an attempt to supply the insistent demand for a simple book, the contents of which would be easily understood by the amateur and serve as a faithful guide and mentor in his or her efforts to grow worth while roses."

Adventures in Dish Gardening. By Patton Beard. 204 p. il. A. T. De LaMare Co., 1930.

A Western interpretation of the old Japanese art of dish gardening.

Aristocrats of the Trees. By Ernest H. Wilson, Keeper of the Arnold Arboretum of Harvard University. 279 p. il. Boston, The Stratford Company, 1930.

Several of the essays in this volume have appeared in other works of the author, but many are new.

Big Trees. By Walter Fry, U. S. Commissioner, Sequoia National Park, and John R. White, Superintendent, Sequoia National Park. 113 p. Stanford University, Stanford University Press, 1930.

This is the story of the Sequoia gigantea of California, recorded by two men who have made the Big Trees their neighbors and companions for many years. "They know not only the life habits and history of these 'oldest and largest of living things' but also understand the spiritual values which accrue from the preservation of these forest giants. Their book contains authentic information regarding the discovery, geographical distribution, physical appearance, and preservation of the Big Trees. A map shows the exact location of every grove of Big Trees known to exist. Numerous halftone illustrations depict individual and group features of structure and environment."

AMERICAN BOOKS (Cont'd)

The Principles of Agronomy. By Franklin S. Harris, President, Brigham Young University, Provo, Utah, and George Stewart, Agronomist, Utah State Agricultural College and Experiment Station, Logan, Utah. Revised edition. 321 p. New York, The Macmillan Co., 1930.

This book has been almost entirely rewritten, the object being to bring the scientific material of the text up to date and make it conform to the newest ideas of teaching the subject. The first edition was written in 1915 and contained 451 pages.

Wheat. By W. W. Swanson, Professor of Economics, University of Saskatchewan, and F. C. Armstrong, Consulting Agriculturist. 320 p. New York, The Macmillan Company, 1930.

Tells how wheat is grown and harvested in Canada, where it goes and by what roads it travels, tells the story of the Grain Exchange and speculator, of wheat pool and foreign buyer; and surveys the wheat lands of the world, and the markets for the staple product of Canada.

The Chrysanthemum and Its Culture. By Edward A. White, Professor and Head, Department of Floriculture and Ornamental Horticulture, N. Y. State College of Agriculture at Cornell University. 132 p. il. New York, Orange Judd Pub. Co., 1930.

The aim of the author has been to present as complete a discussion as possible of all phases of the chrysanthemum and its present-day culture.

Bibliography: p. 130-132.

Bulbs for American Gardens. By John C. Wiater, Secretary, The Pennsylvania Horticultural Society. 272 p. il. Boston, The Stratford Co., 1930.

"A complete and detailed review of all the better known and many of the rare bulbs that are suitable for culture in the various parts of this country." Directions for planting, cultivating, etc., are given.

Rock Gardens and Alpine Plants. By Henry Correvon. 344 p. il. New York, The Macmillan Company, 1930.

"This book resulted from the many requests made of the author when he travelled over this country in 1928, visiting its gardens and lecturing under the auspices of the Garden Club of America... It combines his life-long experience in growing Alpines with his first-hand knowledge of the needs and interests of American gardeners. The manuscript was edited especially for American conditions by Leonard Barron, a horticultural authority and lifelong friend of the author, who also contributes a foreword. The book contains the most complete descriptive list of Alpine plants available. Besides the use and culture of these plants, it discusses ferns, orchids, and cacti, and rock gardens, wall gardens, and their other uses." (Publishers' announcement)

Animal Breeding. By Lawrence M. Winters, Animal Breeder and Associate Professor of Animal Husbandry, University of Minnesota. 2d ed. rewritten and reset. 389 p. il. New York and London, John Wiley & Sons, 1930 (Wiley Agricultural Series)

"In preparing the second edition, an endeavor has been made to make the text more comprehensive than the first edition, to correct errors occurring in the first edition, and to include much of the recently published work pertaining to the rapidly broadening subject of animal breeding." The first edition contained 309 pages.

Heredity of Live Stock. By the late Dr. Christian Wriedt, Ministry of Agriculture, Norway. 179 p. il. London, Macmillan & Co., 1930. (Translation from the Norwegian)

Based on definite experiments and practical experience, the volume shows breeders interested in the steady and progressive improvement of their livestock and the perpetuation of blood lines of proven merit and performance how they can benefit from the modern discoveries in heredity.

Dairy Enterprises. By John C. McDowell, Chief, Division of Dairy Herd Improvement Investigations, Bureau of Dairy Industry, U. S. Department of Agriculture, and Albert M. Field, Associate Professor of Agricultural Education, University of Minnesota. 471 p. il. Philadelphia, J. B. Lippincott Company, 1930. (Farm Enterprise Series)

Prepared on the same general plan as that followed by other texts in the Farm Enterprise Series.

Dairy Farming. Most Milk and Profit per Acre. Prepared as a text for agricultural students and a handbook for dairy farmers. By Wilber J. Fraser, Professor of Dairy Farming, College of Agriculture, University of Illinois. 333 p. il. New York, John Wiley & Sons, 1930. (Wiley Agricultural Series)

The results of the "Most Milk Per Acre Demonstration" planned and started at the University of Illinois, were published in "Hoard's Dairyman" and were followed later by articles on dairy feeding and pasture. This material in revised form is republished in this volume.

Cheese Making. A book for practical cheesemakers, factory patrons, agricultural colleges and dairy schools. By J. L. Sammis, Associate Professor of Dairy Husbandry, University of Wisconsin. 8th ed. of Decker's Cheesemaking, rev. and enl. 304 p. il. Madison, Wis., The Cheese Maker Book Co., 1930.

Dry Milk. By Ch. Porcher, Professeur a l'École Vétérinaire de Lyon. Translated from the second edition of "Le Lait Desséché". 309 p. il. Milwaukee, Wis., The Olsen Publ. Co., 1929.

An entire revision of the first French edition, published nearly fourteen years ago.

AMERICAN BOOKS (Cont'd)

The American Standard of Perfection. A complete description of all recognized varieties of fowls, as revised by the American Poultry Association at its fifty-fourth annual meeting at Springfield, Mass., 1929. 487 p. il. Springfield, Mass., The American Poultry Ass'n, 1930.

The Standard of Perfection is subjected, at the present time, to a general revision once in five years by constitutional provision.

Turkeys. By A. C. Smith, Professor of Poultry Husbandry, College of Agriculture, University of Minnesota. 134 p. il. St. Paul, Minn., Webb Book Pub. Co., 1930.

Special chapters are devoted to each of the essential elements of successful rearing, and there are also chapters on the different varieties and their breeding, the history of the turkey and turkey raising, and the experience and reports of various experiment stations.

Live-Stock and Poultry Diseases. By William A. Billings, Assistant Professor of Veterinary Medicine, University of Minnesota. 504 p. il. New York, The Macmillan Company, 1930. (Rural Science Series)

"This volume is not intended to be a veterinary encyclopaedia. Only those diseases commonly encountered on the farm are included. An attempt has been made to present the subject in a popular way and to avoid the use of all technical terms." The work is in five parts as follows: Part I. Diseases of cattle; Part II. Diseases of horses; Part III. Diseases of sheep; Part IV. Diseases of swine; Part V. Disease of poultry.

Practical Veterinary Pharmacology, Materia Medica and Therapeutics. By Howard Jay Milks, Professor of Therapeutics and Director of the Small Animal Clinic, New York State Veterinary College at Cornell University, Ithaca, with a chapter on Biological Therapeutics by Adolph Eichhorn, Director of the Veterinary Department, Lederle Antitoxin Laboratories. 2d ed. 539 p. il. Chicago, Alexander Eger, 1930.

The text for this second edition "has been carefully revised, mostly rewritten and entirely reset. Much new material has been added to bring it up to date." The first edition contained 519 pages.

Exploring for Plants. By David Fairchild. 591 p. il. New York, The Macmillan Company, 1930.

A personal narrative of the author's adventures in the little-known islands of the East Indies, Sumatra, Java, Ceylon, Morocco, Algeria, and the west coast of Africa, based on notes of the Allison Vincent Armour Expeditions for the U. S. Department of Agriculture, 1925, 1926 and 1927. Mr. Fairchild was formerly Chief of the Office of Seed and Plant Introduction of the Department.

ENGLISH BOOKS

The Organisation of Farming. By G. T. Garratt. Vol. I - Production. 163 p. Cambridge, W. Heffer & Sons, Ltd., 1930.

The author, from his experience as a politician, a county councilor, and a farmer, suggests the first steps which should be taken toward a definite, constructive policy for the organization of agriculture.

A Call to the Farmers of Britain. By D. F. M'Laren. 32 p. Edinburgh, Morrison & Gibb Ltd., 1930.

"Written in the hope of being able to accomplish three objects: first, to warn the public against the possibility of a national catastrophe, resulting from the collapse of British agriculture; second, to rouse the farmer to a definite line of action; and third, to outline a national scheme which can at once save agriculture without penalising the public by raising the price of food." (Foreword)

Farm and Industrial Tractors. A manual for the owner and operator. By D. N. McHardy, author of "Modern Farm Machinery". Foreword by Charles Crowther, Principal, Harper Adams Agricultural College, Newport, Salop. 238 p. il. London, Crosby Lockwood & Son, 1930. (Lockwood's Manuals)

"The object of the volume is twofold - namely, to demonstrate the wide range of applications of tractor power which are possible, and to assist the owner and the driver to get the best out of the tractor when put into service." (Preface)

A Survey of Milk Marketing in Derbyshire. June, 1928. By F. J. Prewett, Agricultural Economics Research Institute, University of Oxford. 70 p. Oxford, The Clarendon Press, 1930.

"An attempt to present statistically the milk marketing organization of Derbyshire, a county typical of much of England in the numbers of cows in milk, in the size and character of holdings, in the diversity of soils and of land elevations, and in its large but not greatly concentrated industrial population."

Successful Poultry Farming. Embodying the achievement of thirty years' working and management of the King's Langley Poultry Farm, being the fifth edition entirely rewritten of Commercial Poultry Farming. By T. W. Toovey, Managing Director, Chairman of the First Poultry Advisory Committee appointed by the Ministry of Agriculture. 113 p. il. London, Crosby Lockwood & Son, 1930. (Lockwood's Manuals)

Cattle, Sheep and Pigs. Their Practical Breeding and Keeping. By Frank Townend Barton. Second edition. 353 p. il. London, Jarrolds, 1930.

In this second edition a few additions have been made, apart from which the book possesses its original form and scope.

Sheep Diseases. By E. T. Baker. 2d ed. 298 p. il. London, Bailliere, Tindall & Cox, 1929.

In this edition several new chapters have been added and others have been enlarged.

The Rat: A World Menace. By A. Moore Hogart, with Preface by Sir Thomas Horder. 112 p. London, John Bale, Sons & Danielsson, 1929.

ENGLISH BOOKS (Cont'd)

The Bread of Britain. By A. H. Hurst. 79 p. London, Oxford University Press, 1930.

Contents: A. Historical survey of the wheat trade in Great Britain; B. The corn trade today.

The Soya Bean and the New Soya Flour. By C. J. Ferrée. Revised translation from the Dutch. By C. J. Ferrée and J. T. Tussaud. 79 p. il. London, William Heineman, 1929.

In this publication the writer "has endeavored to give an account of the numerous uses to which the soya bean has so far been put, and to visualize its future service to humanity through the means of a totally new and practical process by which this legume - the employment of which has hitherto practically been restricted to the service of the Chinese, Japanese and allied races - may in future be used as an important article of food for general consumption throughout every quarter of the globe."

The Economics of Forestry. By W. E. Hiloy, Lecturer in Forest Economics, Imperial Forestry Institute, Oxford, England. 256 p. Oxford, Clarendon Press, 1930. (Oxford Manuals of Forestry)

Founded on courses of lectures given at the School of Forestry and the Imperial Forestry Institute, Oxford. The book is chiefly devoted to a discussion of timber resources and the economics of cultivation.

Australian Rain-Forest Trees, Excluding the Species Confined to the Tropics. By W. D. Francis, Assistant Botanist, Department of Agriculture and Stock, Brisbane. 347 p. il. Brisbane, Government Printer, 1929.

This volume embodies a series of articles which have appeared in the Queensland Agricultural Journal. The descriptions are all original, in some cases having been drawn up from living material and in other cases from the material in the Queensland Herbarium.

Roadside Planting. By "R. B. A." (Roads Beautifying Association) 170 p. il. London, Country Life Ltd., 1930.

In this volume the results of research upon the selection of trees to suit varying local conditions are given, together with the names of trees, the soils, times and methods of planting, etc. There are also suggestions for town and country planting.

Recent Advances in Plant Physiology. By E. C. Barton-Wright, Lecturer in Botany in the University of London, King's College, with a foreword by Prof. R. Ruggles Gates, Professor of Botany in the University of London. 352 p. il.

Covers the limited period of approximately the years 1918 to 1928, with some of the more relevant papers published during 1929. Prepared especially for students.

Hydrogen Ions, Their Determination and Importance in Pure and Industrial Chemistry. By Hubert T. S. Britton, Lecturer in Physical Chemistry, University College of the South-West of England, Exeter. Being volume three of a series of monographs on applied chemistry, under the editorship of E. Howard Tripp. 515 p. London, Chapman & Hall, Ltd., 1929.

ENGLISH BOOKS (CONT'D)

Everyman's Encyclopaedia of Gardening. By Walter P. Wright. Rev. and enl. 495 p. New York, E. P. Dutton & Co., 1930.

This is a new entirely revised and extended edition. The old edition contained 323 pages. The guide to the pronunciation of plant names is a useful feature.

The Complete Book of Gardening. By J. Coutts, Deputy Curator, A. Edwards, and A. Osborn, Assistant Curators, Royal Botanic Gardens, Kew. 738 p. il. London and Melbourne, Ward, Lock & Co., Ltd., 1930.

"By reason of their positions at the Royal Botanic Gardens, Kew, the authors are exceptionally qualified to write a really practical, comprehensive and up to date book covering all phases of gardening... The work is thoroughly practical and in it will be found answers to all questions likely to puzzle the amateur and beginner... Because a gardening volume is essentially a book of reference, it should be as handy in form as possible and the information it imparts should be quickly and easily accessible; for this reason a complete index has been added, popular and botanical names have been carefully cross-referenced, the work has, as far as possible, been arranged alphabetically, and much of the matter in the form of lists and tables, so that the book might well be called a vertiable Gardening at a Glance."

The Amateur's Greenhouse. A complete guide to the construction, heating and management of greenhouses and the cultivation of greenhouse plants. By T. W. Sanders, Editor of Amateur Gardening. Seventh edition. 442 p. il. London, W. H. & L. Collingridge, n. d.

This edition has been brought up to date both in information and in new illustrations. A chapter on "The unheated greenhouse" has also been added.

Notes on Tulip Species. By the late W. R. Dykes, late secretary of the Royal Horticultural Society. Ed. and il. by E. Katherine Dykes, with an introduction by Sir A. Daniel Hall, Director of the John Innes Horticultural Institution. 107 p. il. London, Herbert Jenkins Ltd., 1930.

The volume, published after the death of Mr. Dykes, consists of 54 colored plates reproduced from water color drawings by Mrs. Dykes from the living specimens which she and her husband had grown, and the notes and memoranda of Mr. Dykes collated and reduced to order by Mrs. Dykes as a commentary on each of the reproductions.

Fungous Diseases of Plants in Agriculture, Horticulture and Forestry.

By Dr. Jakob Eriksson, formerly Professor and Director of the Botanical Section of the Central Agricultural Station, Experimentalfältet, Stockholm, Sweden. 2d ed. Translated from the German by William Goodwin, South-Eastern Agricultural College, Wye, Kent (University of London). 526 p. il. London, Bailliere, Tindall & Cox, 1930.

"Presents a general review of the more important fungous diseases which occur in Northern and Mid-Europe on field and garden crops and on certain trees of economic or ornamental value... Some new material which was not available at the time of the publication of the German edition (1927-1928) is included in this edition, more particularly in the chapter on cereal- and grass-rusts and in connection with certain diseases on peach, chestnut and elm trees." (Preface)

FRENCH BOOKS

Plantes Utiles des Pays Chauds. Par Em. Prudhomme, Directeur de l'Institut National d'Agronomie Coloniale. Deuxième édition (entièrement revue et augmentée). 161 p. il. Paris, Librairie Larose, 1929.

The primary purpose of this book is to furnish teachers of agriculture with information about the plant products of the French colonies, thus enabling them to use more intelligently in their classes the specimens of such products which the Institut National d'Agronomie Coloniale has been distributing since 1921. Thirty plants are treated under the headings; Origin, history and distribution; Description; Culture or preparation; Production and consumption. From one to eight pages are devoted to each plant, and the illustrations are numerous, although not always very distinct. This second edition is said to be completely revised and to contain more plants than the first edition (1920).

Les Cactacées Médicinales. Par. A. Hobschette, Docteur en Pharmacie Ancien Interne des Hopitaux de Paris. Préface de F. Gagnepain, Sous-Directeur de laboratoire au Museum National d'Histoire Naturelle. 78 p. il. Paris, Librairie Octave Doin, 1929.

The preface states that, on the whole, comparatively little has been written on the Cactaceae, and almost nothing on their medicinal uses, with the exception of those of the peyote. This work describes fifty other plants of the same family as the peyote, giving their habits, uses, chemical composition and physiological properties.

Atlas de Botanique Microscopique. Par Henri Coupin, Maître de Conférences adjoint à la Sorbonne, Henri Jodin, Assistant de Botanique à la Faculté des Sciences de Paris, et Andre Dauphine, Chef des Travaux pratiques de Botanique à la Faculté des Sciences de Paris. Troisième édition revue et augmentée. 133 p. il. Paris, Vigot Frères, Editeurs, 1930.

In the preface the authors state that this is neither a course in botany nor a treatise on technique but aims to help students in the representation and interpretation of a certain number of examples chosen from among the principal natural groups in such a way as to give an idea of the variation in their structure. It consists primarily of figures, the text being reduced to mere explanatory legends.

L'Elevage et l'Alimentation du Porc. Travaux du Congrès de l'Elevage et d'Alimentation du Porc, Paris, 26-27 Novembre 1928. 583 p. Paris, Société Nationale d'Encouragement à l'Agriculture, 1929.

The Société Nationale d'Encouragement à l'Agriculture has of late years paid special attention to the continuing of its pre-war work on the raising and feeding of farm animals. The present is the fourth congress organized by it since the War, each devoted to a special problem in stock-raising. In this last congress the society has aimed to unite all those who are interested in the raising and feeding of swine. The names of twenty organizations besides the one mentioned above are given as participating in the congress, which was held under the auspices of the French Minister of Agriculture. The papers presented at the Congress are printed in full under the headings: Raising and marketing; Combatting contagious diseases; Feeding; Regional and Departmental monographs; Monographs of breeds.

Die Amerikanische Fleischindustrie. Umfassend Viehzucht Handel, Schlachthausbetrieb, Verwertung von Fleisch- und Nebenprodukten. Von Curt Hanfland. 614 p. il. Leipzig, R. Max Lippold, 1929.

Die Verwertung der Hauptbodenerzeugnisse und die Bodennutzung in den deutschen Wirtschaftsgebieten. Beiträge zur Kenntnis der Marktverhältnisse der deutschen Landwirtschaft. Von Dr. phil. Paul Hesse, Privatdozent an der Universität Göttingen. 200 p. Berlin, Verlag von Paul Parey, 1930.

Klima und Boden in ihrer Wirkung auf das Pflanzenleben. Von Dr. Henrik Lundegårdh, Professor in Stockholm. Zweite verbesserte Auflage. 477 p. il. Jena, Verlag von Gustav Fischer, 1930.

Die Ermittlung des Düngerbedarfs des Bodens. Von J. König, früher Vorsteher der Landw. Versuchs-Station Münster i. Westf. 75 p. Berlin, Verlagsbuchhandlung Paul Parey, 1929.

Das Roggenproblem und die Gerstenzollfrage. Von Dr. Karl Kolwey. 39 p. Bremen, Carl Schünemann, 1929.

Sorte und Düngung. Über die Verwertung steigender Stickstoffgaben durch verschiedene Sorten von Winterroggen, Winterweizen, Sommergerste und Hafer. Von J. Weigert und F. Fürst, Bayer. Landesanstalt für Pflanzenbau und Pflanzenschutz, München. 157 p. Berlin, Verlag Chemie, 1929.

Bericht vom Koppshof, dem Versuchsgut der Landwirtschaftl. Hochschule Berlin. Von J. Hansen, H. von Falck und W. Dietrich unter Mitwirkung von E. Giese, W. Bräuer, H. Vogel, H. Elze, W. Goetze und K. Schultz. 202 p. Berlin, Verlagsbuchhandlung Paul Parey, 1929.

Baumpflanzungen an Strassen und Wegen mit besonderer Berücksichtigung der Landstrassen. Von Landwirtschaftsrat R. Trenkle. 89 p. il. Stuttgart, Verlagsbuchhandlung von Eugen Ulmer, 1929.

Das Agrarproblem im Neuen Europa. Von Dr. h. c. Siegfried Strakosch, Wien. 404 p. Berlin, Verlagsbuchhandlung Paul Parey, 1930.

Agrarrevolution und Agrarreform in Ost- und Mitteleuropa. Von Prof. M. Sering, Universität Berlin. 15 p. Berlin, Verlag der Akademie der Wissenschaften in Kommission bei Walter de Gruyter u. Co., 1929. (Sonderausgabe aus den Sitzungsberichten der Preussischen Akademie der Wissenschaften Phil.-Hist. Klasse 1929. XXV)

Die Gestaltung der Rindviehpreise und die darauf beruhende Möglichkeit einer Prognose. Von Dr. phil. Theodor Gäbler, Diplom-Kaufmann. 82 p. Borna-Leipzig, Universitätsverlag von Robert Nörcke, 1929.

Die Zucht der Biene. Von Professor Dr. Enoch Zander, Direktor der Landesanstalt für Bienenzucht in Erlangen. 3. völlig neu bearbeitete Auflage. 310 p. il. Stuttgart, Verlagsbuchhandlung Eugen Ulmer, 1930. (V. Handbuch der Bienenkunde in Einzeldarstellungen)

BIBLIOGRAPHIES

Sand Movement, Beaches, and Kindred Subjects. Including references on bars, bays, coast changes, currents, erosion, estuaries, shorelines, tides, waves, and wave action. A bibliography (with an index) prepared under the direction of the Chief of Engineers, U. S. Army, by Mr. H. E. Haferkorn, Librarian, Engineer School Library, Army War College, March-November, 1929. 114 p. Fort Humphreys, Va., The Engineer School, 1929.

Hops; selected references on the economic aspects of the hop industry. Comp. by Louise O. Bercaw, Library, Bureau of Agricultural Economics, U. S. Department of Agriculture. March, 1930. 17 p. Typewritten. (May be borrowed for copying)

A guide to the literature of rural life. Comp. by Benson Y. Landis. New York Dept. of research and education, Federal council of the Churches of Christ in America. 1930. 24 p.

A list of state and government bulletins relating to the potato industry. Comp. by Mary F. Carpenter, Library, Bureau of Agricultural Economics, U. S. Department of Agriculture. Feb. 26, 1930. 3 p. Typewritten. (May be borrowed for copying)

Rural libraries; some recent references. Comp. by Louise O. Bercaw, Library, Bureau of Agricultural Economics, U. S. Department of Agriculture. Feb. 1930. 6 p. Typewritten. (May be borrowed for copying)

Artificial drying of hay and grain; a short list of references. Comp. by Louise O. Bercaw, Library, Bureau of Agricultural Economics, U. S. Department of Agriculture. Apr. 1930. 8 p. Typewritten. (May be borrowed for copying)

Rice; references on the economic aspects of the industry, 1927-date. Comp. by Louise O. Bercaw, Library, Bureau of Agricultural Economics, U. S. Department of Agriculture. May, 1930. 9 p. Typewritten. (May be borrowed for copying)

State and federal publications dealing with the marketing of agricultural products; a list of references to the printed publications of state and federal departments of agriculture, markets, etc., issued since 1924. Comp. by Louise O. Bercaw, Library, Bureau of Agricultural Economics, U. S. Department of Agriculture. Apr. 1930. 61 p. Typewritten. (May be borrowed for copying)

The cooperative marketing of grain; a selected list of references. Comp. by Shastina Gardner, Division of Cooperative Marketing, U. S. Federal Farm Board. Mch. 1930. 23 p.

Bibliography of Virginia History since 1863. By Lester J. Cappon, under the direction of Dumas Malone. University of Virginia, 1930. 900 p. (University of Virginia Institute for Research in the Social Sciences, Institute Monograph no. 5).

Pages 9-40 are devoted to agriculture.

NOTES ON PERIODICALS

New Periodicals

- China - Ministry of agriculture and mining. Journal. Nanking, China. mo. 4^o. no. 1, June, 1928. (Chinese. Succeeds China - Dept. of agriculture and commerce. Journal)
- Cuba - Secretaria de agricultura, comercio y trabajo - seccion de industria animal. Boletin. Habana, Cuba. irreg. 8^o. il. num. 1, Mar. 1929.
- Deutsche entomologische gesellschaft. Mitteilungen. Berlin, Ger. mo. except Jy. and Ag. 8^o. il. jahrg. 1, nr. 1, Jan. 1930. (Obtainable only with Deutsche entomologische zeitschrift)
- Economic digest for Connecticut agriculture. Connecticut agricultural college, Storrs, Conn. mo. 8^o. no. 1, June. 1929.
- Garden state farmer. Bridgeton, N. J. 2. f^o. il. v. 1, no. 1, May. 31, 1930.
- Gt. Brit. - Army veterinary dept. The journal of the royal army veterinary corps. Royal army veterinary school, Thornhill, Aldershot, Engl. quar. 8^o. il. v. 1, no. 1, Nov. 1929.
- Loudoun-Fauquier breeders' magazine. Shenandoah pub. house, inc., Middleburg, Va. quar. f^o. il. v. 1, no. 1, Nov. 1929.
- North and South Dakota horticulture. Pierre, S. D. mo. 8^o. v. 2, no. 6, June 1930. Formed by combination of North Dakota state horticultural society, News letter (mimeographed) and monthly pub. of So. Dakota state hort. soc.
- Phosphorous digest. Superphosphate institute. Washington, D. C. mo. 8^o. il. v. 1, no. 1, Mar. 1930. (Succeeds Monthly digest)
- Prussia - Ministerium für landwirtschaft, domänen und forsten. Mitteilungen aus forstwirtschaft und forstwissenschaft. quar. 4^o. jahrg. 1, hft. 1, 1930.

Changes

- British journal of experimental biology. London. Changed to Journal of experimental biology with v. 7, no. 1, Jan. 1930.
- Farm and ranch market journal. Los Angeles, Cal. Changed to Western livestock journal with v. 8, no. 23, May 1, 1930.
- Farmer and breeder. [Minneapolis, Minn.] Ceased with v. 53, no. 9, May 1, 1930.
- Forest and stream. New York. Ceased with v. [100] 63d year, no. 7, July, 1930. Absorbed by Field and stream.
- Fruitman's guide. New York. Changed to Fruit and produce guide with v. 59, no. 1788, May 10, 1930.
- La Forêt et la ferme. Beauceville, Que. With Mar. 1930, v. 1, no. 3, changed to Vie forestière.
- Grain world. Chicago. Ceased with v. 102, no. 13; Dec. 18, 1929. Absorbed by Grain dealers' journal.
- Illustrierte landwirtschaftliche zeitung. Berlin. Ceased with jahrg. 50, nr. 13; Mch. 28, 1930. Absorbed by Deutsche landwirtschaftliche presse.
- Irish statesman. Dublin. Ceased with v. 14, no. 6, April 12, 1930.
- New York produce review and American creamery. New York. Changed to American creamery and poultry produce review with v. 70, no. 1, May 7, 1930.
- Nut grower. Downingtown, Pa. Ceased with v. 6, no. 8, Apr./May, 1930.
- Revue horticole d'Algérie. Alger. Changed to Revue d'horticulture & d'agriculture de l'Afrique du nord with année 34, no. 2, 1930.

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS
of the U. S. Department of Agriculture
issued during April-June, 1930, exclusive of current issues of serials.*

Bureau of Agricultural Economics

Burden of farm taxation, with special reference to the southern states.
By Eric Englund. 18 p. (Issued by Division of agricultural
finance)

California; an index to the state sources of agricultural statistics.
Pt. I - Fruits, vegetables and nuts... sect. 1. Comp. by Louise O.
Bercaw. 342 p. Agricultural economics bibliography no. 31.
(Issued by Library)

Check list of standards for farm products formulated by the Bureau of
agricultural economics. 6 p. (Issued by Division of economic
information)

Cotton consumption in power laundries of the United States - 1928. A pre-
liminary report. By R. J. Cheatham, Ward W. Fetrow, and Carl C. Far-
rington. 16 p. (Issued by Division of cotton marketing)

Drying combine harvested rice on the farm. By W. D. Smith, J. J. Deffes,
C. H. Bennett and W. M. Hurst. 20 p. (Issued by Grain Division,
Bureau of Agricultural Economics, and Division of agricultural engineer-
ing, Bureau of Public Roads)

Farm value, gross income, and cash income from farm production. Part I.
Estimates by commodities and by states, together with production, dis-
position, and price data used 1924-1928: section 1. Crops. A pre-
liminary report. 190 p.

Foreign trade of the United States, annual, 1890-1929. Honey and beeswax.
By Caroline G. Gries. 17 p. Report F. S. 50. (Issued by Division
of statistical and historical research.)

Foreign trade of the United States, annual, 1890-1929. Sheep, mutton, lamb
and wool. By Caroline G. Gries. 39 p. Report F. S. 49. (Issued
by Division of statistical and historical research)

Land utilization as a national problem. By Nils A. Olsen. 13 p.
Address at American Forestry Association, Minneapolis, Minn., Apr. 29, 1930.

Marketing Colorado cantaloupes, summary of 1929 season. By R. Maynard
Peterson. 26 p. (Issued by Division of fruits and vegetables)

Marketing Colorado peaches, summary of 1929 season. By G. D. Clark. 14 p.
(Issued by Division of fruits and vegetables)

Marketing Eastern Shore cucumbers (Delaware & Maryland), summary of 1929
season. By R. E. Keller. 10 p. (Issued by Division of fruits and veget-
ables)

*For a list of the principal series issued regularly, see v.4, no. 102, p. 347.

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS (Cont'd)

Bureau of Agricultural Economics (Cont'd)

- Marketing east Texas tomatoes, summary of 1929 season. By W. D. Googe.
24 p. (Issued by Division of fruits and vegetables)
- Marketing Imperial Valley cantaloupes, summary of 1929 season. By R. H. Lamb. 52 p. (Issued by Division of fruits and vegetables)
- Marketing Lower Rio Grande Valley Texas tomato crop, summary of 1929 season. By W. D. Googe. 24 p. (Issued by Division of fruits and vegetables)
- Marketing Mississippi tomatoes, summary of 1929 season. By Roland L. Sutton. 18 p. (Issued by Division of fruits and vegetables)
- Marketing Mississippi vegetables - cabbage, carrots, string beans, beets, season 1929. By R. L. Sutton. 22 p. (Issued by Division of fruits and vegetables)
- Marketing North Carolina peaches, summary of 1929 season. By C. D. Schoolcraft. 30 p. (Issued by Division of fruits and vegetables)
- Marketing Oregon-Washington fresh prunes, summary of 1929 season. By R. H. Lamb. 36 p. (Issued by Division of fruits and vegetables)
- Marketing southeastern watermelons, summary of 1929 season. By John W. Coleman. 63 p. (Issued by Division of fruits and vegetables)
- Material of primary importance on the economic aspects of agriculture. 5 nos. (Issued by the library)
- Motor truck transportation of fruits and vegetables, western New York and the Cumberland-Shenandoah sections of West Virginia, Maryland and Pennsylvania, 1928-1929. A preliminary report. By Brice Edwards. 29 p. (Issued by Division of fruits and vegetables)
- The old plantation Piedmont cotton belt. A preliminary report. By O. M. Johnson and Howard A. Turner. 32 p. (Issued by Division of land economics)
- Poultry and egg production in the United States. By C. L. Holmes. 10 p. (Issued by Division of farm management and costs)
- Seed rice survey in Louisiana, Texas, and Arkansas, spring of 1929. By W. D. Smith, J. J. Deffes and C. H. Bennett. 19 p. (Issued by Grain division)
- Shifts in farming in the United States. A preliminary report. By W. J. Spillman. 87 p. (Issued by Division of farm management and costs)
- The staple of Oklahoma cotton, 1928 season. A preliminary report. By W. B. Lanham. 12 p. (Issued by Division of cotton marketing)

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS (Cont'd)

Bureau of Agricultural Economics (Cont'd)

Statistics and charts of the apple industry. Comp. by W. H. Youngman.
99 p. (Issued by Division of farm management and costs)

Bureau of Biological Survey

Current trends in game conservation. An address by Paul G. Redington. 6 p.

Bureau of Chemistry and Soils

Acid-forming and alkali-forming foods. By D. Breese Jones. 6 p. (Issued by Protein and nutrition division)

Report of Conference on spontaneous heating and ignition of agricultural and industrial products, called by National fire protection association, in cooperation with United States Department of Agriculture and United States Department of commerce, Washington, D. C., Nov. 14 and 15, 1929. 127 p. (Issued by Chemical and technological research, Chemical engineering division)

Sweating of citrus fruits by the ethylene gas method. (Rev. May 26, 1930)
3 p.

Bureau of Dairy Industry

Method of making grain-curd casein. By Charles S. Trimble and R. W. Bell.
5 p. (B.D.I.M. 531)

Publications of the Department of agriculture relating to the dairy industry which were available for free distribution as of May 1, 1930. 6 p.
(Dairy library list 2)

Office of Experiment Stations

Material of primary importance on the economic aspects of agriculture. Agricultural experiment station publications. By Cora L. Feldkamp.
9 p. (Issued by library)

Extension Service

Extension service circulars of the United States Department of agriculture, numbers 1 to 121 inclusive, issued from March, 1926 to March, 1930. 24 p. Extension service circular 122. (Issued by Office of cooperative extension work)

Foreign agricultural extension activities: England, Australia, France, Guatemala, Estonia, Austria, Soviet Union, and India. Abstracts from recent reports and publications received by J. M. Stedman. 20 p. Extension service circular 123. (Issued by Office of cooperative extension work)

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS (Cont'd)

Extension Service (Cont'd)

The Four-H club work -- Old & New objectives. By Dr. C. J. Galpin. 11 p.
Extension service Circular 127. (Issued by Office of cooperative extension work)

Address delivered before the leaders of the 4-H club work at the
National 4-H club camp, Washington, D. C., June 18, 1930-June 19, 1930.

Negro extension news. 17 p. (Issued by Office of cooperative extension work)

Food, Drug and Insecticide Administration

Food poisoning and the law. 11 p.

Bureau of Home Economics

Club programs on consumer purchasing. 15 p. (Issued by Bureau of Home economics, U. S. Department of Agriculture and the American home economics association)

Library

Material of primary importance on the economic aspects of agriculture.
Foreign publications of primary importance in the field of agricultural economics. By Emma B. Hawks. 5 p.

Bureau of Plant Industry

Chemical weed killers. By M. W. Talbot. 7 p. (Issued by Office of botany)

The culture of table beets. By J. H. Beattie. 4 p. (Issued by Office of horticultural crops and diseases)

Nutgrass. By M. W. Talbot. 3 p. (Issued by Office of botany)

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WANTS

The Library of the Oregon State Agricultural College, Corvallis, wishes to obtain the following publications for which it is willing to pay. Quotations should be sent direct to that library.

Dietary Admin. and Therapy. v. 1 and v. 2, nos. 1-11
(March, 1923-Nov. 1924).

General Science Quarterly. v. 1-4, no. 1; v. 6, no. 1

The Librarian of the Agricultural Library, Pennsylvania State College, wishes to obtain a copy of the Proceedings of the Society for the Promotion of Agricultural Science, 15th, 1894.

The Librarian of the Research Division, American Can Company, 11th Avenue and St. Charles Road, Maywood, Illinois, desires to obtain v. 23, no. 8, vol. 24, no. 6, and vol. 26, no. 9 of the Journal of Agricultural Research.

OFFERS

The Library of the U. S. Department of Agriculture has the following publications for exchange.

Periodicals

India - Forest dept. Forest bulletin, no. 32, 34, 36, 37, 39-40, 42-52, 56-61, 63-64, 69-70.

Tokyo - Imperial university - College of agriculture. Journal, v. 3, no. 1, 4-5; v. 5, no. 2; v. 6, no. 5; v. 8, no. 1-3; v. 9, no. 1-5.

Tropical agriculturist, Peradeniya. v. 65-69 (1925-1927).

Books

Miller, James Collins. Rural schools in Canada, their organization, administration and supervision. Teachers College, Columbia University, Contributions to Education, No. 61. New York, 1913.

Pyle, Robert, McFarland, J. Horace, and Stevens, G. A. How to grow roses. New York, 1930.

Robison, Clarence Hall. Agricultural instruction in the Public High Schools of the United States. Teachers College, Columbia University, Contributions to Education, No. 39. New York, 1911.

Salter, John. The chrysanthemum, its history and culture. London, 1865.

Sears, Fred C. Productive orcharding. Philadelphia, 1914.

Shantz, H. L., and Marbut, C. F. The vegetation and soils of Africa.

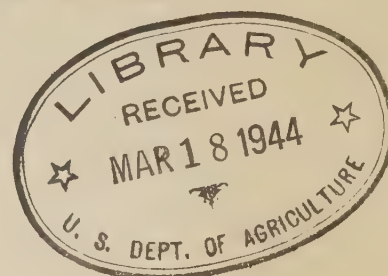
American Geographical Society Research Series No. 13. New York, 1923.

Weir, W. W. Productive soils. Philadelphia, 1920.

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Reserve

AGRICULTURAL LIBRARY NOTES

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ISSUED MONTHLY
BY THE
UNITED STATES DEPARTMENT OF AGRICULTURE LIBRARY
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AND STATE AGRICULTURAL EXPERIMENT STATION LIBRARIES
WASHINGTON
D.C.

CAPPER AWARD FOR DISTINGUISHED SERVICE TO AMERICAN AGRICULTURE

"The announcement late in 1929 of the establishment of the Capper Award for Distinguished Service to American Agriculture has very naturally led to more or less discussion as to the relative value of different forms of agricultural service, including that of research, and as to the practical possibilities of arriving at an equitable decision of such a question. Such discussion can seldom be conclusive but it may none the less be useful. Among other advantages it may lead to a better appreciation on the part of the general public of many forms of such service which are now imperfectly understood or, it may be, merely taken for granted.

The Capper Award, it will be recalled, has been established by Senator Arthur Capper, of Kansas, with the objective of providing "a concrete expression of gratitude to some of the people who make contributions of national importance to American agriculture and to assist in stimulating public appreciation of unusually fine service to our basic industry." It is to be offered annually to a living American who has rendered distinguished service to the agriculture of the United States, and will consist of a gold medal and \$5,000 in cash. No time limitation is imposed as to when the service rendered to agriculture was performed. The first award will be presented in 1930, and no person who has once received it will again be eligible.

The initial committee of awards is headed by President F. D. Farrell of the Kansas State Agricultural College. The remainder of the committee consists of Mr. John H. Finley, editor of The New York Times; President Carl R. Gray of the Union Pacific Railway System; Director James T. Jardine of the Oregon Experiment Station; Ex-Governor Frank O. Lowden of Illinois; President H. A. Morgan of the University of Tennessee; and Dr. W. T. Swingle, plant physiologist and agricultural explorer in the U. S. Department of Agriculture. As would be expected, this committee represents a variety of agricultural contacts and geographical areas.

It is evident that a real responsibility will rest upon the committee, especially in its early years, and that it also has a unique opportunity. There will be widespread interest in its findings and not improbably some divergency of views. Since its formation, however, the present committee has sought suggestions from a large number of qualified persons interested in the progress of rural life, with the view of obtaining a representative body of opinion, and it will doubtless have the benefit of many helpful nominations. It will be of interest to observe the range and relative strength of such sentiment as it develops from time to time.

Entirely without reference to its bearing upon the fortunes of any individual at present eligible, it may not be inappropriate to indulge in some speculation as to whom an honor of this type might well have been awarded in the past. Starting with the establishment of the Republic, the first recipient would surely have been George Washington, by common consent acknowledged to

CAPPER AWARD (Cont'd)

have been the foremost farmer of his day, and whose pregnant words, "with reference either to individual or national welfare, agriculture is of primary importance," have appropriately been inscribed on the new administration building of the U. S. Department of Agriculture, to the establishment of which as a Federal agency he was the first to give responsible official indorsement. Associated with him would probably have been Thomas Jefferson and Benjamin Franklin, whose active interest in, and extensive contributions to, the betterment of the agriculture of their day have never received their full measure of appreciation.

Recognition must also have been given, though perhaps tardily, to the notable group of inventors headed by Eli Whitney with his cotton gin and Cyrus McCormick with his reaper. Another fertile field for candidates would have been the farm journalists, some of whose influence was restricted in area but whose efforts from the days of Luther Tucker and Orange Judd to those of W. D. Hoard and Collingwood have been a powerful factor in our agricultural history.

For the last half century the list would be greatly broadened to include a notable group of administrators and educators, the Federal commissioners and Secretaries of Agriculture, State commissioners, college presidents, and the like. From the ranks of statesmen would come at least the name of Senator Morrill, although so slowly did the cause of agricultural education win its way that the precise year of his admission might have been delayed long after the passage of the act of 1863.

Less prominently before the public, but backed by vital and substantial achievement would have been the pioneers in research—Johnson, Hilgard, and others. Not only the intrinsic value of their discoveries but the power of their example in establishing sound standards of research, developing institutions, and training competent successors to carry on their work would attest the importance and worthiness of their claims to consideration.

Obviously a committee of award would have had great difficulty in passing judgment on the relative service to agriculture of an Atwater or a Knapp, a Colman or a Goessmann, a Henry Wallace or a Wilson. The intangible values are too numerous and too profound for an accurate and immutable evaluation. Yet the attempt may be well worth while. Not every worthy man may receive recognition, but it is not unreasonable to expect that all who are so honored will be really worthy. It is doubtless true that no candidate of any standing will ever be appreciably influenced by the prospects of such a reward, but rather that all will go on in the words of Kipling, "each for the joy of the working and each in his separate star," but the way has none the less been opened for an annual appraisalment of actual accomplishments in the varied fields of agricultural service, and the bestowal of a substantial honor on the one—be he research worker, educator, editor, statesman, investor, or what not—whose service to agriculture is deemed most outstanding.

By a curious coincidence, on the day the foregoing lines were written announcement was made that the initial award, which had not been generally expected for some months, had been bestowed upon Dr. S. M. Babcock of Wisconsin. It need scarcely be said that this decision recognizes the claims and ideals of research to an exceptional degree, and that the honor will be widely applauded as highly appropriate and richly deserved." (From the Experiment Station Record, vol. 63, no. 1, p.4-6. July 1930)

CARDS FOR STATE EXPERIMENT STATION PUBLICATIONS

Do the State agricultural college and experiment libraries feel the need of cards for the Bulletins and Circulars of the State Experiment Stations? This problem has been discussed in the past in the meetings of the Agricultural Libraries Section and in Agricultural Library Notes, but no decision has been reached. The index cards formerly issued for them by the Office of Experiment Stations were discontinued some fifteen years ago. It is true that the Experiment Station Record abstracts the publications carefully and they are also included in the Agricultural Index, but these do not wholly take the place of cards which can be placed in the library catalogue under author and subject. Cards have been printed by the Library of Congress, from copy furnished by the institutions themselves for the publications of six of the stations: Illinois, Indiana, Massachusetts, Oregon, Vermont and Virginia, and are very helpful. The U. S. Department of Agriculture Library feels that it should have cards for all the other station publications in its catalogue. Do other libraries also feel this need? The Card Section of the Library of Congress reports that it would be unwilling to print such cards, even if the copy is furnished, unless it can get as many as one hundred subscribers. It doubts whether this will be possible, judging from the fact that some of the agricultural libraries have discontinued subscription to the cards for the U. S. Department of Agriculture publications, perhaps because they consider that the Experiment Station Record and the Agricultural Index render these publications sufficiently available. Is this the general feeling of agricultural librarians? If subscribers can be found, it may be possible to arrange for the cataloguing of the publications. It has been hoped that several more States would be able to undertake the work of cataloguing their own publications. The U. S. Department of Agriculture Library might then be able to finish the job. Will not any who are willing to subscribe, whether they are strictly agricultural libraries or not, write to the Librarian of the U. S. Department of Agriculture. Expressions of opinion as to whether or not the project is worth while are also solicited.

A NEW CLASSIFICATION OF AGRICULTURE

The International Institute of Agriculture has issued in mimeographed form a preliminary edition of a "Classification Scheme of Agriculture for use in bibliographical work, libraries, archives and reference filed of any kind". The introduction explains that the classification scheme is based on a Thesis, written by Dr. Sigmund von Frauendorfer, M.A., the head-librarian of the International Institute of Agriculture in Rome, in 1927 for the degree of M. A. at the University of Illinois (U.S.A.). The title of the thesis was: "Classification problems in agricultural libraries". The original scheme contained in the thesis was however - with the help of numerous members of the staff of the International Institute of Agriculture - considerably modified and enlarged and it has been translated into French and German. It is not expected however that this scheme is the final solution of the problem and this preliminary draft has been prepared to make it known to a larger circle of students, who are requested to furnish constructive criticism and proposals for improvement.

RECENT CHANGES IN THE BUREAU LIBRARIES OF THE U. S. DEPARTMENT OF AGRICULTURE

A library for the Division of Agricultural Engineering of the Bureau of Public Roads has recently been organized. The Division is located in a separate building from the main offices of the Bureau and handles subjects distinct in their specific applications from the subjects dealt with by the highway and bridge engineers. It has therefore for a long time felt the need of a more special library service than could be rendered by the Bureau Library. To render this service a branch library for the Division has been organized and Mrs. Dorothy J. Wilks, formerly Assistant Librarian of the Bureau of Public Roads, has been placed in charge. The collections of the library will deal particularly with irrigation, drainage, farm structures, farm machinery and power, rural sanitation, lighting, heating, ventilation and the other phases of agricultural engineering. The library is located in Room 218 of the building at the corner of Pennsylvania Avenue and 13th Street, which has recently been purchased by the Government.

During the summer a special library service has been organized for the Cotton Division of the Bureau of Agricultural Economics. It is administered as a branch of the Bureau of Agricultural Economics Library and is in charge of Miss Emily L. Day. The library began in July the issuance of a mimeographed monthly list entitled "Current Literature on Cotton".

Two of the Bureaus of the Department have been moved to new quarters during the summer and as a consequence the libraries of the Bureaus have also been moved. The Bureau of Home Economics has been moved to offices on the 9th and 10th floor of the Earle Building, 13th and E. Streets, N.W., and the Bureau of Entomology has been moved to Building C, one of the temporary war buildings at 7th and B Streets, S. W. Permanent quarters for both bureaus and their libraries will eventually be provided according to present plans, in the new building which is now being erected for the Department of Agriculture.

UNIVERSITY OF NEW HAMPSHIRE - MASTERS' THESES

A Partial List Supplied by Mr. William W. Shirley, Librarian.

- Abbott, Harold E. A study of the extraction of germanium and gallium from germanite.
- Daggett, Albert F. Part I. A new method for the rapid concentration of dysprosium. Part II. A new method for the rapid separation of erbium from yttrium.
- Eastwood, Medora V. Diabetes mellitus, a brief history, physiology and control and the greatest problem in the treatment.
- Fox, Robert H. The action of certain oils on the egg-masses of the leaf-roller, Archips argyrospila Walker.
- Lowry, Doris Gallup. Arthur Young - Humanist.
- Pickett, Thomas A. The soluble carbohydrates of the fruit spurs of the Baldwin apple.
- Redden, Elizabeth A. The statistical method in social research.
- Tepper, Albert Edward. Retail egg marketing survey in the city of Dover.
- Watson, Alice Louise. Further chemical studies of poultry paralysis.
- Webster, Robert G. John Evelyn's Sylva: its place in the science of forestry and in English literature.

BIBLIOGRAPHIES AND INDEXES

A Select Bibliography of Modern Economic Theory, 1870-1929. Compiled by Harold E. Batson, Assistant in the Department of Economics, London School of Economics, with an introduction by Lionell Robbins, Professor of Economics in the University of London. 220 p. London, George Routledge & Sons, 1930. (No. 6 in the series of bibliographies by writers connected with the London School of Economics and Political Science)

The volume is in two parts, (1) Subject Bibliography, and (2) Author Bibliography.

Rural Standards of Living, a Selected bibliography compiled by Louise O. Bercaw under the direction of Mary G. Lacy, Librarian, Bureau of Agricultural Economics. 121 p. Washington, D. C., 1930. (U. S. Department of Agriculture, Bureau of Agricultural Economics. Agricultural Economics Bibliography, no. 32)

This bibliography was prepared for the use of the American Country Life Association at the thirteenth National Country Life Conference, Madison, Wis. October 7-10, 1930, at the request of the Conference Program Committee. The bibliography is annotated.

Partial List of References on Roadside Development. Compiled in the Library, U. S. Bureau of Public Roads, by Mildred Wilson, August, 1930, 49 p. [Washington, D. C. 1930] Mimeographed.

American Game Mammals and Birds, a Catalogue of Books, 1582 to 1925. Sport, Natural History, and Conservation, by John C. Phillips, with the approval of the Boone and Crockett Club. 639 p. Boston & New York, Houghton Mifflin Company, 1930.

Contents.- Part I. The general catalogue. Part II. Conservation. A. General. B. Federal conservation. C. State conservation. D. Conservation in Canada. Part III. Periodical publications, pamphlets, etc. The author described the catalogue as a list of North American game mammals, fur mammals, upland game, wild-fowl and shore birds ranging from the Canadian Arctic to Central America and Panama, up to and including the year 1925. The basis of the bibliography was the "magnificent world library on sport and travel" collected by Charles Sheldon, of Washington, D. C. On his death the library was given to Yale University.

Bibliography on studies of costs and standards of living in the United States. By Faith M. Williams, Senior Economist, assisted by Helen Connolly. A preliminary report. Bureau of Home Economics, U. S. Department of Agriculture. 104 p. July, 1930.

A List of reference indexes, special bibliographies and abstract serials in the John Crerar Library. Compiled by H. Einar Mose. 14 p. (The John Crerar Library. Reference List. No. 4. 1930)

Selected list of publications on tropical agriculture. Prepared for the Inter-American Conference on Agriculture, Forestry and Animal Industry, September 8-20, 1930. 90 p. Washington, D. C., Pan American Union, 1930. Mimeographed.

BIBLIOGRAPHIES AND INDEXES (Cont'd)

A bibliographical history of pamphlets and articles on horticulture in the library of the Agricultural and Mechanical College. Library, Agricultural and Mechanical College, Stillwater, Oklahoma. 36 p.

Cotton. A selected list of references taken from material in the Library, Oklahoma Agricultural and Mechanical College, including publications from state experiment stations, extension divisions, and books, with a list of current magazines pertaining to cotton. Oklahoma Agricultural and Mechanical College. Library Bibliography no. 2. 23 p. Mimeographed

Large-scale cooperative marketing: its application to agriculture. A selected bibliography. By Marie Wignore Barkman. Library School, University of Wisconsin, June, 1930. 19 p. (Typewritten)

Economic and sociological research in agriculture. A selected bibliography. By Helen Elizabeth Burgess. Library School, University of Wisconsin, June, 1930. 57 p. (Typewritten)

Land utilization. A contribution to a bibliography. By Rea J. Steele. Library School, University of Wisconsin, June, 1930. 19 p. (Typewritten)

Agriculture in the life of the Nation. A selected list of references. Compiled by Everett E. Edwards, Division of Statistical and Historical Research, U. S. Department of Agriculture. August, 1930. 4 p. (Mimeographed.)

An "Annotated Index to Articles on Highway Safety and Allied Subjects" has been prepared for the Committee on Causes and Prevention of Highway Accidents, Highway Research Board, by the staff of the library of the Bureau of Public Roads of the U. S. Department of Agriculture. The index includes 2389 items from 177 American and foreign periodicals and has an author index consisting of 899 names.

The Main Library of the Canada Department of Agriculture, has issued in mimeographed form an "Index to publications of the Federal Department of Agriculture of Canada" as follows: Bulletins, n. s. 1-100; Pamphlets, n. s. 1-100; Circulars, n. s. 1-70; Acts, Orders and Regulations, 1-29.

NOTES ON PERIODICALS

New Periodicals

- L'agriculture pratique des pays chauds, revue mensuelle d'agronomie tropicale. Société d'éditions géographiques, maritimes et coloniales. 184, Boulevard Saint-Germain, Paris (VI.) mo. 8°. il. n.s., no. 1, July 1930 (last no. issued: v.14, no. 135, June 1914) France et colonies: 75 fr.; étranger (U.S. not included) 90 fr.; les autres pays, 105 fr.
- American rose quarterly. West Grove, Pa. quar. 12°. v. 1, no. 1; Mar.1930. 50¢
- Bird-banding; a journal of ornithological investigation. Charles B. Floyd, 95 South St., Boston, Mass. quar. 8°. il. new ser., vol. 1, no. 1, Jan. 1930. 1.50 per year. Continuation of the Bulletin of the Northeastern bird-banding association.
- Blätter für landwirtschaftliche marktforschung. Monatsschrift des Instituts für landwirtschaftliche marktforschung. Hrsg. von prof. dr. Karl Brandt, Institut für landwirtschaftliche marktforschung, Berlin, mo. 4°. il. hft. 1, June 1, 1930. 12 - RM
- Crop science society of Japan. Proceedings. Faculty of Agriculture, Tokyo Imperial University, Komaba, Tokyo, Japan. mo. 12°. il. v. 2, no. 1, June 1930. Price not stated.
- Cytologia: International journal of cytology, Internationale zeitschrift für zytologie; Archives internationales de cytologie. Y. Sinoto, Koishikawa Botanic Garden, Koishikawa-ku, Tokyo, Japan. irreg. (4 or 5 nos. a year) 4°. il. vol. 1, no. 2, Dec. 1929. 24 shillings, 6:00.
- Dairy tribune. Mount Morris, Ill. mo. 4°. ill. v. 1, no. 1; Ap. 1930. 50¢ a yr.
- Gt. Brit. Ministry of agriculture and fisheries. Bulletin. 10, Whitehall Place, London, S.W. 1. irreg. 8°. il. no. 1. June 1930. Price not stated.
- Maryland academy of sciences. Journal. Baltimore, Maryland. quar. 4°. il. diagrs. v. 1, no. 1, Jan. 1930. \$4.00 per yr.
- The Philippine journal of agriculture [formerly the Philippine agricultural review] Bureau of plant industry, Manila, P.I. quar. 8°. il. v. 1, no. 1, 1st quarter, 1930. P 2 (Philippine currency) or \$1 (U.S. Currency)
- Tottori agricultural college, Tottori, Japan. Memoirs. Tottori, Japan. frequency not stated, probably mo. 8°. il. v. 1, no. 1, May 18, 1930. price not stated. (Agent for the sale of publications of the college: Maruzen Co., Ltd., Tori Sanchoe, Nihonbashiku, Tokyo, Japan)

Changes

- American produce grower. Chicago. Discontinued with v. 5, no. 4, Apr. 1930. Absorbed by American fruit grower magazine May 1930.
- Creamery and milk plant monthly. Chicago, Ill. Changed to Milk plant monthly with v. 19, no. 8, Aug. 1930.
- Farm machinery and hardware. St. Louis, Mo. Changed to Farm machinery and equipment with no. 1759; July 15, 1930.

NOTES ON PERIODICALS (Cont'd)

Changes (Cont'd)

- Farm supplies. Pittsfield, Mass. Changed to Farm & garden supplies with v. 3, no. 1; July 1930.
- Millers' review. Atlanta, Ga. Changed to Millers' review and feed forum, with v. 94, no. 6, June 1930.
- Nebraska highways. Lincoln, Neb. Merged Nov. 1929 with Nebraska's own magazine.
- The Philippine agricultural review. Discontinued with v. 22, no. 4, fourth quarter 1929. Succeeded by The Philippine journal of agriculture.
- Révue générale agronomique. Louvain. Changed to Agricultura; bulletin trimestriel de l'Association des anciens étudiants de l'Institut agronomique de l'Université de Louvain with v. 33, no. 1, Jan. 1930.
- Victorian bee journal. Melbourne, Australia. Changed to Australian bee journal, with v. 11, no. 7, July 1930.

WANTS

Clemson College Library, Clemson College, South Carolina, wishes to obtain copies of the indexes to volumes 4, 9 and 10 of the Philippine Agricultural Review.

The Montana State College Library, Bozeman, is in need of the following publications:

International Association of dairy and milk inspectors,
Annual report, vol. 10, 1921.

Association of Official Seed Analysts of North America,
Proceedings, 21 (1928) to date.

The Office of Experiment Stations Library, U. S. Department of Agriculture desires copies of U. S. Dept. of Agriculture Bulletin 1199, and Supplements 1 to 3, and Miscellaneous Publication 65. (List of Bulletins of the Agricultural Experiment Stations in the United States from their establishment to the end of 1920, and the supplementary lists for 1921-22, 1923-24, 1925-26, 1927-28, respectively.)

The United States Department of Agriculture Library wishes to obtain Bureau of Chemistry Bulletins, no. 85 and 87.

The Bureau of Agricultural Economics Library, U. S. Department of Agriculture, wishes to obtain the following:

U. S. Department of Commerce.

Commerce and navigation: 1899, vol. 1; 1903, vol. 2;
1904, vol. 2; 1905 - 1909; 1913.

Libraries which maintain a file of the Oregon Agricultural Experiment Station Circulars will be interested to know that Nos. 71-72 were never published and the numbers are cancelled.

AMERICAN BOOKS

Tama Jim. By Earley Vernon Wilcox, with the collaboration of Flora H. Wilson. 196 p. Boston, The Stratford Company, 1930.

A biography of James Wilson, who was Secretary of Agriculture from 1897 to 1913.

Crucibles. The lives and achievements of the great chemists. By Bernard Jaffe. 377 p. il. New York, Simon and Schuster, 1930.

The history of chemistry told in biographies. Through the pages pass in review Bernard Trévisan, Theophrastus Paracelsus, John Joachim Becher, Joseph Priestley, Henry Cavendish, Antoine Laurent Lavoisier, John Dalton, John Jacob Berzelius, Amedeo Avogadro, Friedrich Woehler, Dmitri Ivanovitch Mendeleeff, Svante Arrhenius, Marie Sklodowska Curie, Joseph John Thomson, and Henry Gwyn Jeffreys Moseley. The volume won the Francis Bacon Award for the Humanizing of Knowledge.

The Range Cattle Industry. By Edward Everett Dale. 204 p. illus. Norman, University of Oklahoma Press, 1930.

Work on this volume was begun in 1924 under the direction of the Bureau of Agricultural Economics, U. S. Department of Agriculture. It was expected that it would be printed as a manuscript of that Bureau, but this was delayed and permission was recently given by the Bureau for its publication by the University of Oklahoma Press. The author is a Professor of History at the University of Oklahoma. There is a bibliography on pages 199-208.

The History of Tobacco Production in the Connecticut Valley. By Elizabeth Ramsey. Smith College Studies in History, vol. XV, nos. 3-4, April, 1930-July, 1930. Northampton, Mass., Dept. of History of Smith College.

Wheat: The Riddle of Markets. A brief study of the production, sale and consumption of wheat. By Chas. W. Peterson. 121 p. il. Calgary, Canada, "Farm and Ranch Review Limited", 1930.

"The great, unsolved problem that confronts the wheat grower the world over is whether the production of wheat will presently outstrip consumptive demand." This book deals with the problem as it affects Canada.

Corn for the Northwest. By George F. Will. 158 p. St. Paul. Minn., Webb Book Publishing Co., 1930.

Covers the subject of corn and corn growing broadly and in all its departments in as brief form as possible.

Report of Dr. Kenyon L. Butterfield on Rural Conditions and Sociological Problems in South Africa. 42 p. New York, Carnegie Corporation of New York, 1929.

The Rise of the Common Man, 1830-1850. By Carl Russell Fish, professor of History, University of Wisconsin. 391 p. New York, The Macmillan Company, 1929. (Vol. VI of "A History of American Life")

An answer to the question "whether the finer fruits of civilization can be democratized without being vulgarized". Chapter IV is on "Farm, Plantation and Highway".

AMERICAN BOOKS (Cont'd)

Productive Vegetable Growing. By John W. Lloyd, Professor of Olericulture, University of Illinois. 6th ed. revised. 343 p. il. Philadelphia, J. B. Lippincott Company, 1930. (Lippincott's Farm Manuals)

The previous edition contained the same number of pages.

Modern Roses. A uniform descriptive list of all important roses in commerce. Prepared for the American Rose Society by J. Horace McFarland. 284 p. il. New York, The Macmillan Company, 1930.

Commercial Rose Culture Under Glass and Outdoors. A practical guide to modern methods of growing the rose for market purposes. By Eber Holmes, 4th ed. rev. 242 p. il. New York, A. T. De La Mare Company, 1930. In this revision the material has been brought up to date, several new chapters have been added, and illustrations of newer varieties inserted.

The Lawn. The culture of turf in park, golfing and home areas. By Lawrence S. Dickinson, Assistant Professor of Horticulture, Massachusetts Agricultural College. 128 p. il. New York, Orange Judd Pub. Co., 1930.

Weed Control. Practical experiences in weed eradication. Written and compiled by Duncan Marshall, Minister of Agriculture, Province of Alberta, 1909-1921. 159 p. il. n. p., Imperial Oil Limited, 1930. Issued "in the hope of rendering some assistance to farmers in fighting weeds. It is not designed to take the place of any publications issued by either the Federal or the Provincial Departments of Agriculture, but rather to be supplementary to them."

A Suggested Program of Weed Research and Control. Submitted to Hon. Alexander Legge, Chairman, Federal Farm Board, by the Agricultural Service Department Committee, Chamber of Commerce of the United States, Washington, D.C., April 23, 1930. 27 p. Washington, D.C., Chamber of Commerce of the U.S., 1930.

The Porto Rico Sugar Manual. Including data on Santo Domingo mills. 280 p. il. New Orleans, A. B. Gilmore, 1930.

A presentation of details on the ownership, operating personnel, machinery equipment, transportation facilities, cane supplies, sugar, production - sale and shipment, communications and offices, with special agricultural information for the various centrals active in Porto Rico in 1930. Similar details are also presented on Santo Domingo sugar factories. The front section of the Manual is devoted to presentation of all the formal addresses delivered before the 1929-30 annual meeting of the Association of Sugar Technologists of Porto Rico, with the addition of a few special individual contributions to the Manual from Porto Rican sugar technologists.

Range Beef Production in the Seventeen Western States. By Fred S. Hultz, Head of Animal Husbandry, University of Wyoming. 208 p. il. New York, John Wiley & Sons, 1930.

"In the preparation of this volume the author has attempted to include the essential, successful ranch practices along with recent results of experimental work in range beef production. An effort has also been made to retain the viewpoint and outlook of the western cattle producer."

Beef Cattle. Their Feeding and Management in the Corn Belt States.

By Roscoe R. Snapp, Associate Professor of Animal Husbandry, University of Illinois. 2d ed. rev. 494 p. il. New York, John Wiley & Sons, 1930.

Includes new knowledge about beef cattle which has come into existence since the appearance five years ago of the first edition of this work.

Dairy Cattle. Selection, Feeding and Management. By William Wodin Yapp, Professor of Dairy Cattle, and William Barbour Nevens, Associate Professor of Dairy Cattle Feeding, College of Agriculture, University of Illinois. 2d ed. 390 p. il. New York, John Wiley & Sons, 1930.

In the second edition minor changes have been made throughout and many references to new literature have been added. Extensive changes are to be found in chapters IX and XVI.

Practical Dairy Tests. A manual for students and those interested in the practical testing of dairy products. By A. D. Burke, Head of Dairy Department, Alabama Polytechnic Institute, State College of Agriculture. 201 p. il. Milwaukee, Wis., The Olsen Publishing Company, 1930.

Written with the purpose of preparing a treatise which would satisfy not only the requirements of students of dairying but practical plant operators as well.

Live-Stock and Poultry Diseases. By William A. Billings, Assistant Professor of Veterinary Medicine, University of Minnesota. 504 p. il. New York. The Macmillan Company, 1930. (Rural Science Series)

Attempts to present the subject in a popular way, avoiding the use of all technical terms. Only those diseases commonly encountered on the farm are included.

Practical Poultry Management. By James E. Rice, Professor and Head of Department of Poultry Husbandry, Cornell University, and Harold E. Botsford, Extension Professor of Poultry Husbandry at Cornell University. 2d ed. rev. 540 p. il. New York, John Wiley & Sons, 1930. (Wiley Farm Series)

Includes tables, illustrations, references and other information which have become available since the first edition was printed. The original text has been clarified and condensed to make room for new facts.

Poultry Husbandry. By Morley A. Jull, Senior Poultry Husbandman, Bureau of Animal Industry, U. S. Department of Agriculture. 639 p. il. New York, McGraw-Hill Book Company, 1930.

"An encyclopedic and up-to-date treatment of the fundamental principles and practices involved in successful poultry production and marketing."

AMERICAN BOOKS (Cont'd)

Hygiene, Feeding and Management of Baby Chicks. By W. H. Lapp, Director of Poultry Research Society of America, and E. V. McCollum, Professor of Chemical Hygiene, School of Hygiene and Public Health, Johns Hopkins University. 138 p. il. Baltimore, Md., The Authors, 1930.

Wampler's Practical Turkey Methods. A text giving the essentials for successful turkey management told in a brief and simple manner. By Chas. W. Wampler, twenty years a successful turkey breeder, twelve years with agricultural extension service in one of the leading poultry sections of America, and one year head of the Agriculture Department of Bridgewater College. 61 p. il. Harrisonburg, Va., The Author, 1929.

Rabbits for Food and Fur. By Frank G. Ashbrook, In Charge, Division of Fur Research, Bureau of Biological Survey, U. S. Department of Agriculture. 176 p. il.

"Writer for the man, woman, or youth of the farm, the city suburbs, or the classroom, who is interested in raising rabbits. It is not the purpose to cover the entire field in detail, but to present the more important phases of rabbit production for meat and fur, to include some of the newer practices, and to indicate trends in the industry."

Plant Physiological Chemistry. By Rodney Beecher Harvey, Head of the Section of Plant Pathology and Botany, Minnesota Agricultural Experiment Station. 413 p. il. New York, The Century Co., 1930.

Presents the physiological chemical mechanism of the vital processes of plants." No great amount of new research data is included, but it is thought that the material used for illustration is of a nature such as should give a new point of view to students of plant physiology and of the plant sciences in general."

Manual of Bacterial Plant Pathogens. A complete alphabetical index of plant pathogens and associated organisms, with descriptions and with a comparative chart appended. By Charlotte Elliott, Associate Pathologist, Bureau of Plant Industry. U. S. Department of Agriculture. Baltimore, The Williams & Wilkins Company, 1930.

The Materials of Life. A general presentation of biochemistry. By T. R. Parsons. 288 p. New York, W. W. Norton & Company, 1930.

Written "to give an account that everybody shall be able to understand of the materials of which living things are made, and of the complex but fascinating changes that these materials undergo during life."

The Boston Society of Natural History, 1830-1930. 117 p. il. Boston, Printed for the Society by the Merrymount Press, 1930.

An illustrated history of the Society from its beginning on February 9, 1830, including photographs of its various presidents. It is in three parts: I. Milestones; II. The Museum as it stands today; III. Plans for the future.

What Tree is That? By E. G. Cheyney, Professor of Forestry, University of Minnesota. Rev. ed. 188p. il. New York, D. Appleton & Company, 1930.

The first edition published in 1927 contained 185 pages.

Big Trees of the Giant Forest. Sequoia National Park in the Sierra Nevada of California. Their life story from the blossom onward. By George W. Stewart. 105 p. il. San Francisco, A. M. Robertson, 1930.

Our Plant Friends and Foes. By William Atherton DuPuy. Introduction by William A. Taylor, Chief, Bureau of Plant Industry, U. S. Department of Agriculture. 277 p. il. Philadelphia, The John C. Winston Company, 1930.

An endeavor to bring together certain interesting facts, many of them long known to plant growers and students, and to present them in the everyday language which the ordinary person may understand.

American Honey Plants. Together with those which are of special value to the beekeeper as sources of pollen. By Frank G. Pellett. 3d ed., rev. and enl. 419 p. il. Hamilton, Ill., American Bee Journal, 1930.

"Much new material has been added in this edition concerning plants previously included and many new plants are discussed for the first time. Material relating to the southwest has been greatly extended and some new facts brought to light."

Bee Matters and Masters. By Herbert Mace, with an appendix "Who's Who in Beekeeping". 144 p. il. Harlow, Essex, The Beekeeping Annual Office, n.d.

Manual for the Study of Insects. By John Henry Comstock, Emeritus Professor of Entomology in Cornell University, Anna Botsford Comstock, Emeritus Professor of Nature Study in Cornell University, and Glenn W. Herrick, Professor of Entomology in Cornell University. 19th rev. ed. 401 p. il. Ithaca, The Comstock Publishing Co., 1930.

The aim of this revision has been to keep the Manual in form and arrangement practically as it was first written. The attempt has been made to bring the subject-matter down to date, to simplify it and to condense it somewhat in order to bring it within the horizon of the beginning student. Some of the old figures have been omitted and many new ones added. The previous editions contained 201 pages and were not revised.

Animal Life of Yellowstone National Park. By Vernon Bailey, Chief Field Naturalist, United States Bureau of Biological Survey. 241 p. il. Springfield, Ill., Charles C. Thomas, 1930.

The material in this volume is based on many trips to the park by the author and others in the course of work of the Bureau of Biological Survey, and on special trips for the study of the elk herds and other game animals in both winter and summer, as well as on a walking trip around the trails of the park with the Sierra Club party of 1926.

North Carolina, Economic and Social. By Samuel Huntington Hobbs, Department of Rural Social-Economics in the University of North Carolina. 403 p. Chapel Hill, The University of North Carolina Press, 1930.

"This book is, so far as we know, the first of its kind to appear in the United States - an unbiased and factual account and analysis of a single state: North Carolina. Everybody knows that it is the state that tobacco put on the map, that has some of the best motor highways in the world, that lures golfers, textile mills, power site seekers, furniture makers, collegians, cotton growers, and tenant farmers. But what else is known? Does the state - or the rest of the country, for that matter - know the extent of the tobacco industry, the highway system, the amount of horse power and kilowatt hours produced, how many pieces of furniture are turned out, what sort of education our young students find, how the cotton farmer lives and what happens to his cotton, how many men are landless in proportion to the number that work the land? Where North Carolinians came from - how many left - and why? How many read? How many can't? How many have money in the bank, a cow in the pasture, an automobile in the garage, and butter in the frigidaire? This book tells you all of that and more. Based on fifteen years of close study, observation, and teaching State affairs, it is authentically substantiated by many tables, charts, and official information of every description. It offers a wealth of information and will serve as a model of unprejudiced yet sympathetic approach to an analysis of the home State." (Publishers' announcement)

Rural Community Life. By Lee Ora Lantis, Professor of Social Science, State Teachers College, Minot, North Dakota. 375 p. il. New York, American Book Company, 1930.

Aims to discuss social conditions in rural communities and to offer suggestions for improving the standard of living of rural citizens (1) by explaining the nature of various social problems that exist in the average rural community, (2) by outlining how surveys may be made to obtain adequate information pertaining to the problems, (3) by suggesting ways and means of solving the problems successfully, and (4) by providing project material in the nature of local community problems in order that students may receive specific training for citizenship in their respective communities.

The Country Church and Public Affairs. Edited by Henry W. McLaughlin, Director of Country Church Work, Presbyterian Church, U. S. Issued under the auspices of the Institute of Public Affairs at the University of Virginia. 260 p. New York, The Macmillan Company, 1930.

The twenty chapters in this volume are the outgrowth of the Open Forum and Round Table studies and discussions on "The Task of the Country Church" in the 1929 Institute of Public Affairs.

What's Right with the Rural Church. An application of Christian principles to the new rural life. By Ralph A. Felton. 150 p. il. Philadelphia, Presbyterian Board of Christian Education, 1930.

AMERICAN BOOKS (Cont'd)

The Rural Negro. By Carter Godwin Woodson. 265 p. il. Washington, D. C., The Association for the Study of Negro life and History, 1930.

"This book is another by-product of the three-year survey of the social and economic conditions of the negroes of the United States since the Civil War, a task undertaken by the Association for the Study of Negro Life and History in 1926. Inasmuch as most negroes live in the South, this work bears mainly upon the status of these people in this particular section of the country. Confined to rural people, then, the book treats only of conditions obtaining among the peasants and persons living in centers of not more than two thousand five hundred inhabitants."

Child Labor in Agriculture and Farm Life in the Arkansas Valley of Colorado.

Based upon studies made during summer, fall, and winter, 1924, in cooperation with the National Child Labor Committee. By Bertram H. Mautner and W. Lewis Abbott, assisted by Harold W. Bell and Anne Bispham. 158 p. New York, National Child Labor Committee, 1929.

The concluding report in a series of four studies of child labor in rural sections of Colorado, the field work being carried on by representatives from the National Child Labor Committee, Colorado College, and Colorado Agricultural College.

The Small Town Woman's Reactions to Metropolitan Fads and Habits. First hand opinions from country leaders. 40 p. New York, Teachers College, Columbia University, 1930.

A survey made by the Department of Rural Sociology, Columbia University in cooperation with Woman's World.

Agricultural Prices. By Frederick Lundy Thomsen, Professor of Agricultural Economics, University of Missouri. Vol. I. 203 p. Columbia, Mo., Stephens Publishing Co., 1930.

In this volume the author has attempted, first, to arrange a discussion of the fundamentals of value and price, based as far as possible on accepted theory and practice, in a form adapted strictly to the needs of agricultural students, and second, to show the practical application of these principles in the study of commodity prices and general problems in the field of agricultural prices. Mimeographed.

Farm Accounting and Agricultural Economics. By Chas. E. Baughman, formerly Commissioner of Markets and Warehouses, State of Texas. 182 p. Austin, Texas, The author, 1930.

Designed to meet the needs of the farmer for a set of records that will enable him to arrive at the production cost of every crop grown.

Cooperative Live Stock Field Service Manual. 184 p. il. Chicago, Dept. of Information, Nat. Live Stock Producers Ass'n, 1929.

The President of the Association states that eight years of experience have given the Association a volume of information and demonstrated the need of having this made available to its membership. It is for this purpose that the manual has been prepared.

The Bureau of Home Economics, Its History, Activities and Organization.
By Paul V. Betters. 95 p. Washington, D. C., The Brookings Institution, 1930. (Institute for Government Research, Service Monographs of the United States Government, No. 62)

American Housing as Affected by Social and Economic Conditions. By Edith Louise Allen, Home Economist, Editorial Staff of Extension Service, U. S. Department of Agriculture. 216 p. il. Peoria, Ill., The Manual Arts Press, 1930.

"History from a new point of view. It is the history of the American home as seen by the homemaker. It is the result of an extensive study of the effects of social, economic and industrial changes upon housing. The influence of inventions, scientific discoveries, educational progress, financial conditions, political situations, immigration, and other leading factors are traced."

The Relation of Diet to Health and Growth of Children in Institutions.
With a method of evaluating dietaries and a three-weeks dietary conforming to the standards proposed. By Mary Swartz Rose, Professor of Nutrition, Teachers College, Columbia University, and Cora E. Gray, Professor of Home Economics, Catawba College, with the cooperation of Katherine L. Foster, M. A. Teachers College, Columbia University. 128 p. New York, Teachers College, Columbia University, 1930. (Child Development Monographs, No. 2)

Eat and Keep Fit. Preventing and controlling overweight, acidosis and constipation. By Lyman F. Kebler, Associate Professor, Georgetown Medical College, Washington, D. C. With an introduction by Harvey W. Wiley. 302 p. Washington, D. C., The Author, 1930.

Aims to present, in popular form, certain information on foods and nutrition.

The House that Runs Itself. By Gladys Denny Shultz and Beulah Schenk. 238 p. il. New York, The John Day Company, 1929.

Written with special regard for homemaking in relation to modern methods of child care.

Earning and Spending the Family Income. A textbook in Home Economics. By Mata Roman Friend, formerly head of the Department of Home Economics in the University High School, University of Chicago. New York, D. Appleton & Company, 1930.

This volume is the result of six years spent in gathering materials and organizing a course in the University High School of the University of Chicago.

Bread Production under Scientific Management. By Arnold Spencer Wahl. 585 p. il. Chicago, Bakers' Helper, 1930.

The result of many years of study and original research in this subject by the author.

ENGLISH BOOKS

Rothamsted Memoirs. Volume XIV. 905 p. il. Harpenden, Herts, Eng., Rothamsted Experimental Station, 1930.

This volume includes sixty-four reprints and covers the period 1928 to 1930. The price is 36 shillings, plus postage.

Animal Ecology and Evolution. By Charles Elton, Department of Zoology and Comparative Anatomy, University Museum, Oxford. 96 p. Oxford, The Clarendon Press, 1930.

Contains the substance of three lectures delivered in the University of London in the autumn of 1929 under the title of "The Future of Animal Ecology".

Inspection of Fish, Game, Fruit, Nuts, and Vegetables. By A. Horace Walker, Sanitary Inspector to the Metropolitan Borough of St. Pancras, 2d. ed. 252 p. il.. London, Baillière, Tindall & Cox, 1930.

The text of the original edition has been completely revised and new features have been added.

Fleming's Veterinary Obstetrics. Including the diseases and accidents incidental to pregnancy and parturition. 4th edition revised by J. F. Craig, Principal and Professor of Medicine in the Veterinary College of Ireland, Dublin. London, Baillière, Tindall and Cox, 1930.

In this fourth edition the general form and scope of the third edition has been adhered to and the matter brought up to date.

A Text Book of Dairy Chemistry. Theoretical and practical, for students of agriculture and dairying. By Edgar R. Ling, Lecturer in agricultural chemistry at the Midland Agricultural College. 213 p. London, Chapman & Hall, 1930.

Based largely upon a course of lectures delivered by the author at the Midland Agricultural College.

Report of the Committee on Agricultural Cooperation in Scotland. Presented by the Secretary of State for Scotland to Parliament by command of His Majesty, May, 1930. 45 p. Edinburgh, H. M. Stationery Office, 1930.

Relates to the present position of agricultural cooperation in Scotland and its future development.

A History of the English Corn Laws, 1660-1846. By Donald Grove Barnes, Professor of History in the University of Oregon. 336 p. London, George Routledge & Sons, 1930.

The aim of this volume "is to trace the history in Great Britain of the governmental regulation of the internal corn-trade and of the exportation and importation of corn from 1660 to 1846, and to study the reactions to and influence of public opinion on these policies."

Bibliography: p. 303-331.

Statistical Methods for Research Workers. By R. A. Fisher, Chief Statistician Rothamsted Experimental Station. 3d ed. rev. and enl. 283 p. London, Oliver and Boyd, 1930.

GERMAN BOOKS

Die Bestimmung des Düngerbedürfnisses des Bodens. Von Dr. Eilh. Alfred Mitscherlich, Direktor des Pflanzenbau-Instituts der Universität Königsberg i. Pr. Dritte, neubearbeitete Auflage. 119 p. il. Berlin, Verlagsbuchhandlung Paul Parey, 1930.

Lehrbuch der Allgemeinen Bodenkunde. Der Boden als dynamisches System. Von Alexander Stebatt, Professor an der Universität Belgrad in Jugoslawien, vormals Saratow und Moskau. 518 p. il. Berlin, Gebrüder Borntraeger, 1930.

Agrarmeteorologie. Die Abhängigkeiten der Ernteerträge von Wetter und Klima. Von Dr. Paul Holderfleiss, Universität Halle. 108 p. Berlin, Paul Parey, 1930.

Die Agrarischen Umwälzungen im Ausserrussischen Osteuropa. Ein Sammelwerk herausgegeben und eingeleitet von Prof., Dr. H. Sering, Universität Berlin. 493 p. Berlin und Leipzig, Walter de Gruyter & Co., 1930.

Einführung in die Wirtschaftslehre des Landbaus. Unter besonderer Berücksichtigung der Landarbeitslehre. Von Dr. E. Laur, Professor an der eidgenössischen technischen Hochschule in Zürich. Zweite, neubearbeitete Auflage. 346 p. Berlin, Paul Parey, 1930.

Lehrbuch des Forstschatzes. Von Dr. Christof Wagner, Professor der Forstwissenschaft an der Universität Freiburg i. Br. 357 p. il. Berlin, Paul Parey, 1930.

Die Seuchenhaften Krankheiten der Honigbiene. Von Dr. Alfred Borchert, Regierungsrat und Mitglied der Biologischen Reichsanstalt für Land- und Forstwirtschaft in Berlin-Dahlem. Dritte, neubearbeitete Auflage. 96 p. il. Berlin, Verlagsbuchhandlung von Richard Schoetz, 1930.

Anbau von Arzneipflanzen. Anweisungen für Landwirte und Gärtner zum erfolgreichen Anbau der Drogenpflanzen. Von Kurt Kurner. 181 p. Hannover, M. & H. Schaper, 1930.

Handbuch der Neuzeitlichen Milchverwertung. für Molkereipraktischer, Milchwirte und die gesamte Milchindustrie. Von Dr. C. Knoch, Privatchemiker in Stuttgart. Dritte, neubearbeitete und vermehrte Auflage. 719 p. il. Berlin, Paul Parey, 1930.

Mensch und Tier im Zyklus des Kontagiums. Der Zusammenhang zwischen Krankheiten bei Mensch und Tier. Von Dr. T. Van Heelsbergen, Tierarzt und Bakteriologe an der Universität Utrecht. Mit einem Vorwort von Prof. Dr. W. Schöffner, Direktor des Instituts für Tropische Hygiene zu Amsterdam. 167 p. Stuttgart, Ferdinand Enke Verlage, 1930.

SELECTED LIST OF MINEOGRAPHED PUBLICATIONS
of the U. S. Department of Agriculture
issued during July-August, 1930, exclusive of current issues of serials.*

Bureau of Agricultural Economics

Agriculture in the life of the nation. A selected list of references.
Comp. by Everett E. Edwards. 4 p. (Issued by Division of statistical
and historical research)

Foreign trade of the United States, annual, 1790-1929. Fruits. By
Caroline G. Gries. 106 p. Report F. S. 48. (Issued by Division of
statistical and historical research)

Foreign trade of the United States, annual, 1790-1929. Nuts, domestic
exports, imports, reexports and net balance, quantity and value. By
Caroline G. Gries. 35 p. Report F. S. 51. (Issued by Division of
statistical and historical research)

Is the purchasing power of the farmer's town declining? By C. J. Galpin.
4 p. (Issued by Division of Farm population and rural life)

Marketing California grapes, summary of 1929 season. By W. D. Googe.
(Issued by Division of fruits and vegetables)

Marketing (Western slope) Colorado apples, summary of the 1929 season.
By G. D. Clark. (Issued by Division of fruits and vegetables)

Marketing Cumberland - Shenandoah - Potomac district apples, summary of
1929 season. By V. H. Nicholson. (Issued by Division of fruits and
vegetables)

Marketing Michigan apples, summary of 1929 season. By R. H. Shoemaker.
32 p. (Issued by Division of fruits and vegetables)

Marketing Michigan grapes, summary of 1929 season. By R. H. Shoemaker.
22 p. (Issued by Division of fruits and vegetables)

Marketing Michigan peaches and marketing Michigan pears, summaries of
1929 season. By R. H. Shoemaker. 26 p. (Issued by Division of
fruits and vegetables)

Marketing Utah onions, summary of 1929 season. By Leonard S. Fenn.
(Issued by Division of fruits and vegetables)

Marketing Western New York celery, summary of 1929-30 season. By J. P.
Klein and A. L. Thomas. (Issued by Division of fruits and vegetables)

*For a list of the principal series issued regularly, see v. 4, no. 1-2,
p. 347.

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS

Bureau of Agricultural Economics (cont'd)

- Marketing western New York peaches. Summary of 1929 season. By J. P. Klein and A. L. Thomas. 29 p. (Issued by Division of fruits and vegetables)
- My philosophy of rural life. By C. J. Galpin. 6 p. (Issued by Division of farm population and rural life)
Address before the Institute of rural affairs, Virginia polytechnic institute, August 1, 1930.
- Staple length of Texas cotton, crops of 1928 and 1929. A preliminary report. By W. B. Lanham. 14 p. (Issued by Division of cotton marketing)
- Vocational trends in a rural high school. By C. J. Galpin. (Issued by Division of farm population and rural life)
A supplementary report to Dept. Bul. 984, The National influence of a single farm community.
- Wheat facts. 2 parts.

Bureau of Chemistry and Soils

- Publications of the Insecticide division, Bureau of chemistry and soils.... January 1, 1930 to June 30, 1930. 2 p. (Issued by Insecticide division)

Bureau of Entomology

- The use of the ethylene oxide-carbon dioxide mixture for treating stored grain. By E. A. Back, R. T. Cotton, H. D. Young, and J. H. Cox. 10 p. (Joint contribution from Bureau of Entomology, Bureau of chemistry and soils, and Bureau of Agricultural economics)
- Suggestions for the prevention of infestations of cultivated mushrooms by insects and other pests. By O. E. Gahn. 4 p. (Issued by Division of truck-crop insects)

Extension Service

- Educational values in 4-H club work. By E. H. Shinn. 24 p. Extension service circular 128. (Issued by Office of cooperative extension work)
- Home demonstration work - 1929. Central states. By Grace E. Erysinger. 17 p. Extension service circular 129. (Issued by Office of cooperative extension work)
- How the supervisor aids the county agent. By C. L. Chambers. 18 p. Extension service circular 126. (Issued by Office of cooperative extension work)

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS

Extension Service (cont'd)

How to organize a county agent's office. By C. L. Chambers. 26 p.
Extension service circular 125. (Issued by Office of cooperative extension work)

Food, Drug and Insecticide Administration

Marketing with Uncle Sam. 10 p.

Bureau of Home Economics

Bibliography on studies of costs and standards of living in the United States. By Faith M. Williams, assisted by Helen Connolly. A preliminary report. 104 p.

Pickles and relishes. 6 p.

"Wheat Production Adjustment, 1930" is the title of a new mimeographed serial being issued by the Extension Service, U. S. Department of Agriculture, for the purpose of keeping extension workers in the wheat growing States advised of latest developments in the wheat situation, of progress made by State extension divisions in the effort to bring about desirable adjustments, and of statements bearing upon wheat production and marketing which may be issued from time to time by the Federal Farm Board, the United States Department of Agriculture, and the State agricultural colleges. No. 1 has the date August 8, 1930.

AGRICULTURAL LIBRARY NOTES

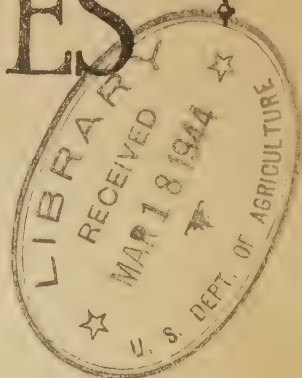
Editorial Note

It is regretted that it has not been possible to issue Agricultural Library Notes monthly during the last year. It is planned to issue only one more number during this year for the months October to December. Contributions for this number are urgently requested. Please send the material by December first.

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Reserve

AGRICULTURAL LIBRARY NOTES

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ISSUED MONTHLY
BY THE

UNITED STATES DEPARTMENT OF AGRICULTURE LIBRARY
WITH THE COOPERATION OF THE LAND GRANT COLLEGE
AND STATE AGRICULTURAL EXPERIMENT STATION LIBRARIES
WASHINGTON
D. C.

RESEARCH METHODS IN PROFESSIONAL LIBRARY TRAINING

The following significant extracts taken from the last report of Dr. C. C. Williamson as Director of the School of Library Service, Columbia University, contain much food for thought in connection with agricultural library work:

"At what point in the curriculum shall training in methods of scientific research be introduced? This is a very practical question which calls for study and experimentation. How much, if any, of the time of the candidate for the Master's degree shall be devoted to research? The students themselves usually have no desire, in the beginning at least, to undertake anything but 'assimilative' study. They come with the idea of learning, under the guidance of competent instructors, as much as they can of what is already known and, for the most part, easily accessible in print. There is no doubt that a year's study of this kind may add greatly to the resources and efficiency of most young librarians. However, the School of Library Service is at the present time working on the theory that every candidate for the Master's degree should get some slight introduction at least to the methods of scientific research which are applicable to the problems of library service....The primary reason for introducing research methods into the first year of graduate study is to be found in its by-products, which should be of value to all and not merely to the few who show special aptitude for research and eventually make their chief contribution to that field. The first by-product of value should be a more scientific habit of thinking and of attacking new problems. This is especially important with students whose college training and past interests have been dominantly literary rather than scientific. Even though the librarian himself may not engage in serious research, he should be able to understand and appreciate the significance of scientific studies made by others... But the most important reason, in my judgment, for bringing modern research methods into programs of professional training as early and as effectively as possible, is the need of trained research workers in the library field. In the natural sciences, in the humanistic and social sciences, in the applied sciences, in education and business and industry, in social service - everywhere except in the library field, extensive programs of research are being carried on, highly organized and well financed. In library service there is practically nothing that can be classified as research. No library, so far as I am aware, appropriates any money for conducting research in problems of library service. The library schools are not equipped to carry on research. If library service is to hold its own in the modern world, it must very soon begin to attack its problems by a thoroughgoing application of the spirit and methods of research that are being found so effective in every other field, but this cannot be done until professional training for librarianship is thoroughly permeated with the spirit and methods of scientific research."

NEW BOOKS ON THE OLD WEST

"The celebration this year of the 100th anniversary of the departure of the first wagon train for the Oregon country and the accompanying realization on the part of the American public that the old frontier is gone has apparently stimulated a more lively interest in the old west than ever before. At any rate it would seem so from the number of books that are being published on the subject. 'Hardly a trail of the past has been overlooked; scarcely a frontiersman, whose name lingers, is without his biographer.'" Such is the foreword of a list, compiled by Bernice Gibson, of books on the Old West, published in 1929 and 1930, which appears in the Wisconsin Library Bulletin for October, 1930. It is followed by a brief list on the Covered Wagon Centennial. Other evidence of this interest in the frontier is given in the following recent list of books on the cattle trade and the cowboy.

THE CATTLE TRADE AND THE COWBOY

List prepared by the Colorado State Agricultural College Library.

Cattle Industry

- Dale, E. F. The range cattle industry. 1930.
Dale, E. E. History of the ranch cattle industry in Oklahoma. (In Amer. Hist. Assoc. Ann. Rept. 1920)
Dobie, J. F. A vaquero of the brush country. 1929.
Hastings, F. S. A ranchman's recollections. 1921.
Hill, J. L. End of the cattle trail. [192-?]
Hunter, J. M. comp. Trail drivers of Texas. 1925.
Klemmedson, G. S. Economic study of the range cattle industry in Colorado. Thesis. 1925.
Lopez, I. D. Growth of the cattle industry in Cuba. (In U. S. Bur. of Animal Industry, Ann. Rept. 1903)
Mills, J. Early range days. (In Colorado: Short Studies of its Past and Present. 1927)
Osgood, E. S. Day of the cattleman. 1929.
Parr, V. V., and Klemmedson, G. S. Economic study of the costs and methods of range cattle production in Texas. [192-]
Pelzer, L. Trails of the trans-Mississippi cattle frontier. (In Willard, J. F., and Goodykoontz, C. B. eds. Trans-Mississippi West. 1930)
Raine, W. M., and Barnes, W. C. Cattle. 1930.
Wilson, J. Cattle industry of the United States. (In U. S. Bur. of Animal Industry, Ann. Rept. 1901)

Cowboys

- Rollins, P. A. The cowboy. 1922.
Clark, B. Sun and saddle leather. [Poems] 1922.
Hough, E. Story of the cowboy. 1921.
James, W. The lone cowboy. 1930.
Lomax, J. A. comp. Cowboy songs. 1922.

SURVEY OF LAND-GRANT COLLEGES AND UNIVERSITIES

The Survey of the Land-Grant Colleges and Universities which was undertaken July 1, 1927, by the Office of Education of the U. S. Department of the Interior, was completed June 30, 1930. It is one of the largest educational surveys ever conducted through the Office of Education. The work was directed by Dr. Arthur J. Klein, Chief of the Division of Collegiate and Professional Education of the Office of Education. "The survey is made upon the basis that functions of the land-grant colleges are those of democratic higher education, of direct service to the States in which they are located, and of public responsibility for the preservation and advancement of the individual and social welfare of the American citizenry. The circumstances of their foundation, the statement in National and State law of their purposes, and the definition of objectives that is embodied in the history of their development unite to justify acceptance of this estimate of the land-grant colleges as axiomatic. It is the purpose of the survey to present an estimate of the accomplishments, the status and the future objectives of the land-grant institutions with reference to these ideals and responsibilities." The report on the survey is to appear in two volumes. Volume I has just been published as Bulletin (1930) No. 9 of the Office of education. It is in eleven parts as follows: Part I. Historical introduction; Part II. Control and administrative organization; Part III. Business management and finance; Part IV. Work of the registrar; Part V. Alumni and former students; Part VI. Student relations and welfare; Part VII. Staff; Part VIII. The library; Part IX. Agriculture; Part X. Engineering; Part XI. Home economics. It is planned to publish these sections also as separate bulletins. Part VIII on The Library was prepared by Mr. Charles H. Brown, Librarian, Iowa State College. It contains a little more than a hundred pages, to be exact, pages 609-714. It is divided into the following chapters: Chapter I. Introduction; Chapter II. Usability of library; Chapter III. Methods of facilitating use; Chapter IV. Books and periodicals; Chapter V. Buildings; Chapter VI. Administrative control; Chapter VII. Personnel; Chapter VIII. Financial support and library budgets; Chapter IX. General conclusions.

By the time this issue of Agricultural Library Notes is distributed copies of the survey will no doubt have been received by the libraries of the institutions described. The librarians of these institutions and librarians in general must feel a deep sense of pride that the part of the survey contributed by the member of their profession is such an outstanding piece of work, and such a valuable contribution to the literature of the profession.

FEDERAL RELATIONS TO EDUCATION

Two recent publications with which librarians and land-grant colleges need to be familiar are the pamphlets entitled "Federal Relations to Education - A Memorandum of Progress" by the National Advisory Committee on Education, and the "Preliminary Comments on the Memorandum" by the Executive Committee of the Association of Land Grant Colleges and Universities. Both pamphlets are published by the Office of the National Advisory Committee on Education, 26 Jackson Place, Washington, D. C.

FARM LIFE FICTION IN THE UNITED STATES*

By Caroline B. Sherman, Editor, Bureau of Agricultural Economics

In reviewing the development of farm life fiction, there are many signs within the literature itself as well as outside factors to substantiate the belief that this school of writing, although comparatively young in years, has come of age. Not the least of these is the increasing attention being given to rural fiction by rural sociologists.

The development of farm-life fiction in America has occurred practically within the last fifteen years, although scattering volumes appeared well before 1915. The movement seemed really to get under way only when Willa Cather began to publish her books with an encouraging regularity. Farm life fiction as here used excludes many frontier stories, nature stories, and small-town stories and is limited chiefly to those books that deal with actual life on the farm - with agriculture as a way of life. It is difficult to realize now how little was published about farms and farming in the general and literary books and magazines before the decade now closing, but soon after 1920 interest in farm life became active and later when it became acute there was some fear among those who were closely interested lest the interest assume the proportions of a fad.

Among the many reasons for the accelerated interest in farm-life fiction were (1) a growing consciousness among American artists generally that the thing next to them and best understood by them is more likely in their hands to yield a thing of beauty than is the exotic; (2) the renewed emphasis on realism in fiction following the World War; (3) the later shift toward regionalism; (4) the influence of the Middle West on American art generally but particularly on fiction; (5) interest in psychology and psychoanalysis with its resulting study of so-called types of characters; (6) postwar depression in agriculture and its repercussions in other walks of life; and (7) the prize winning propensities exhibited by farm-life fiction.

The earlier wording of the Pulitzer novel award seemed to suggest to the judges a rural type in the specification that it should "best present the wholesome atmosphere of American life and the highest standards of American manners and manhood." At any rate, the record, for several years, reads like a rural award. In 1923 this prize went to Willa Cather for *One of Ours*; in 1924 to Margaret Wilson for *The Able McLaughlins*; in 1925 to Edna Ferber for *So Big*; in 1927 to Louis Bromfield for *Early Autumn*. Other prizes have been awarded to Glenway Westcott for *The Grandmothers*, to Martha Ostenso for *Wild Geese*, and to Mazo de la Roche for *Jalna*. In 1922 the Pulitzer biographical prize award went to Hamlin Garland for his *Daughter of the Middle Border* and the Atlantic Monthly prize for the best biography recently went to Harriet Connor Brown for *Grandmother Brown's One Hundred Years*, both books dealing with essentially rural characters. The Hamlin volume had been announced by its publishers as fiction. A tentative prediction is that the prize now being offered by the National Arts Club will go to a writing that has its roots in the soil of rural America. The stipulation is that it shall be awarded to the writing

*Abstract of talk given at the November meeting of the library staff of the U. S. Department of Agriculture.

FARM LIFE FICTION IN THE UNITED STATES
(Cont'd)

that shall best reveal the soul of America in any literary form - biography, essay, poem, novel - that will bring out the aspects of our civilization that are fundamental and admirable. But there are those who are rather relieved that farm life fiction now seems to have grown away from this precocious prize-winning period, encouraging though it was in a new development, for the awards were always likely to tempt immature and insincere writers to the field. They believe that the subject has its most satisfactory chance when it is left in the hands of experienced and thoughtful writers who combine a first-hand knowledge of farm life with keen insight and a grasp of essential values.

Among the features that tend to differentiate good farm life fiction from other good fiction are: (1) Objectives of the leading characters are usually different and are rarely materialistic in the usual sense; (2) the books are characterized by a sense of growth - in character development, in living things of the farm, in extent of acres, in community organization; (3) the vocabulary, the style, the figures of speech, are likely to be closely akin to the farm, to the rhythms of the seasons, to the fields and the forests, the earth and the sky; (4) between the leading characters and the soil there is usually a deep affinity.

Among the evidences that farm life fiction has come to maturity are: (1) We can now demand as much of rural novels as of any other - strong characterization, insight, "savor," good literary style and craftsmanship. (2) The relative stability and continuity in farm life means that this material lends itself to modified saga treatment: the very existence of such sequences as Garland's Trail Maker series and Quick's trilogy is evidence of the substance and body and maturity of this material. (3) All kinds of treatment are found within this school - severely objective, dramatic or melodramatic, warmly subjective, reportorial in the best sense, lyric prose. (4) Development shown among the writers themselves: Garland was at first bitter but later became more mellow, with better perspective; Miss Suckow is now leavening her material with a brief imagination; Miss Scarborough has grown from a somewhat sentimental viewpoint to almost too-literal transcription. (5) Many of the farm life novels have been profitable enough for dollar reprint editions. (6) Many different viewpoints are represented; for instance, we see the immigrants and their reactions to American conditions as seen through American eyes, in Willa Cather's *My Antonia*; we see American settlers through the eyes of immigrant settlers and the subjective revelation of the immigrants' response to American conditions and customs in Rolvaag's *Giants of the Earth*. In fact, farm life fiction now covers a wide range in subject and treatment.

Farm life fiction seems to have a promising future. The possibilities are almost unlimited for meeting shifts in the public demand, from the material farm life offers. It is a rich source from which to draw, even if the public turns to romance or the historical novel.

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AROUND THE AGRICULTURAL LIBRARY CIRCUIT

The course in bibliography offered by the Iowa State College Library staff for graduate students has been elected during the current year by over one hundred graduate students. The course consists of one hour per week and is given in the fall, winter and summer quarters. The class is divided into sections. The subject matter varies with the majors of various students.

The Radio Book Club of the Iowa State College Library has issued its first printed catalog. The books are loaned by mail on a basis of 15 cents per loan. The college pays the postage one way. Each member buys 20 coupons at 15 cents each - one coupon being good for one book. The club has limited at present its membership to 400. The books are almost entirely books recently published and are intended for recreational rather than for informational reading. Most of the members come from rural communities where public library facilities are somewhat lacking.

The library staff of the Michigan State College is mentioned in the preface of the new book "Introduction to Rural Sociology" by Charles Russell Hoffer, who extends thanks "for the courteous and patient assistance in securing references." Incidentally, Doctor Hoffer throughout this book discloses a keen appreciation of the socializing value and influence of the right kind of reading and the value of personal enthusiasm and contact in library work, especially in its extension phases.

The Oregon State College Library, after thorough investigation has decided to change from the Dewey to the Library of Congress classification. All new titles received since April, 1930, have been catalogued according to the Library of Congress system. Reclassification is starting with the 500's and will proceed as rapidly as practicable. In the case of serial publications, a routine has been arranged for finding books under both the new and old numbers until the entire set is done. The project also includes a revision of the catalogue for more complete contents, fuller analytics, and consideration as to whether the material should continue to be reference or circulating.

At the University of Maryland, the new library building is nearing completion and will probably be ready for occupancy about the first of the new year. The outstanding purchase of the last fiscal year in any one field of the library was that of 405 volumes of scientific serial publications needed to fill out sets already partly represented in the library. Last year there were 195 enrolled in the Freshman classes in Library Methods taught by the library staff during the first semester. This year Library Methods is taught during both semesters, 101 being enrolled at present. A series of instruction films is being used in connection with two of the sections and has assisted in making simple some of the more difficult details in this course.

The libraries of Clemson College and Colorado Agricultural College "as a bit of publicity" are issuing brief lists of interesting current magazine articles.

AROUND THE AGRICULTURAL LIBRARY CIRCUIT
(Cont'd)

At the Arkansas College of Agriculture a Professor in the Agricultural Economics and Rural Sociology Department has given his class an assignment on rural libraries. This seems an excellent idea as these students are the future taxpayers and citizens of the state. The librarian states that one of her hard problems is teaching the new students how to use the library. She would like to hear from other librarians on the subject. During the Orientation week the new students are given some general instructions by the main librarian but they learn nothing about the bulletin catalog.

Several changes have occurred in the past year in the library personnel of the Land Grant College and Experiment Station libraries. Miss Elizabeth Stout is now librarian of the Montana State Agricultural College, Miss Mary E. Marks is librarian of the University of Wyoming, Mr. E. C. Morris is librarian of the Mississippi Agricultural and Mechanical College, and Miss Marjorie Rogers is librarian of the New York Agricultural Experiment Station at Geneva. Miss Orpha Cummings has been appointed librarian of the newly organized library of the Giannini Foundation of Agricultural Economics at the University of California. Mrs. M. J. Abbott, formerly Agricultural Reference Librarian of the University of California, is now librarian of the Biology Library in the new "Life Science" building of the University. According to present plans the Agricultural Reference Room in the main library at the University will be discontinued. The Agricultural Reference Librarian will have a desk with other reference assistants.

The annual report of the Library of the U. S. Department of Agriculture for 1930 has just been published. Copies are available upon request. Reprints are also available of the chapter on the Library contained in the recent publication of the Department entitled "The U. S. Department of Agriculture, its Growth, Structure and Functions" (Miscellaneous Publication no. 88).

LIBRARY, DEPARTMENT OF AGRICULTURE, UNION OF SOUTH AFRICA

The Memorandum on Libraries in the Union of South Africa, Rhodesia and Kenya Colony, by S. A. Pitt, published by the Carnegie Corporation of New York, contains the following interesting statement on the Library of the Department of Agriculture, Union of South Africa;

"Of the few specialist libraries seen, the best are those associated with government departments. That relating to agriculture, housed in Union Buildings, Pretoria, is probably the most widely known and used. This library is said to comprise 10,000 complete works and many thousands of serial publications, pamphlets, reports, etc. Admission to the library is free, and readers may consult its contents without charge. By depositing £ 1 and paying an annual subscription of 6 shillings, borrowers may have books on loan, and these are sent to distant subscribers post free. An official wrapper enclosed with books delivered by post enables borrowers to return them without payment of postage. Subscribers and others are assisted further on request by the free provision of information relating to agricultural matters."

BIBLIOGRAPHIES

A Bibliography of the History of Agriculture in the United States

Doubtless many libraries have for a long time felt the need of an extensive bibliography of the history of agriculture in this country. This need has fortunately now been supplied, as the U. S. Department of Agriculture has recently issued, as Miscellaneous Publication No. 84, "A Bibliography of the History of Agriculture in the United States" by Everett E. Edwards, Associate Agricultural Economist, Division of Statistical and Historical Research, Bureau of Agricultural Economics. "This bibliography," as explained by Mr. Edwards in his foreword, "is an amplification of a brief list of references prepared in the fall of 1927 for use in a course on the history of agriculture in the United States, taught in the graduate school of the U. S. Department of Agriculture. Only in the sections pertaining to agriculture in the strict sense of the word has an effort been made to list more than the main references. A few publications issued prior to 1900 and after 1929 have been included but only the literature printed during the intervening years was carefully searched. No systematic attempt was made to include pertinent items in publications of State departments of agriculture in agricultural periodicals. The same is true of breed books and texts devoted primarily to agricultural methods. In conformity with general governmental policy, the annotations are elucidations of titles and descriptions rather than critical evaluations."

The bibliography is arranged by subject and has an author and subject index. It contains 307 pages.

Outline of a Digest and Bibliography of the World's Literature Pertaining to Phosphorus in Relation to Plants, Animals, Soils and Fertilizers

The Superphosphate Institute of Washington, D. C., has established a fellowship at the University of Wisconsin for the purpose of making a digest and bibliography of the world's literature pertaining to phosphorus in relation to plants, animals, soils and fertilizers. The work is already well under way. Both the American and foreign abstract journals are being gone over carefully, and card indexes by author and subject and card abstracts are being made. The original will be consulted whenever available.

When the indexing and abstracting are completed, the material will be classified and arranged for publication. A digest will be given of each important subject followed with a bibliography of the literature pertaining thereto. Indexes by author, subject, and station or institution are to be included.

It is believed this will eliminate a great deal of duplication of effort by investigators and others in looking up references pertaining to this important subject. Moreover, very few investigators are in a position to make a good review of the enormous literature involved. To those workers who do not have access to a good library, it will be especially valuable.

Phosphate studies involve expenditures of, perhaps, a million dollars or more annually in this country alone. It is hoped that this digest and bibliography may expedite and aid in giving better direction to the research in this field. (The American Fertilizer, September 27, 1930, p.15)

Five years of research in industry, 1926-1930. A reading list of selected articles from the technical press. Compiled by Clarence J. West, Director, Research Information Service, for the Division of Engineering and Industrial Research, National Research Council. 91 p. New York, National Research Council, 1930.

The primary purpose of this bibliography is to supply references to articles which provide answers to questions on important research activities and the secondary purpose is to indicate those fields of research in which little or no work is being done. It supplements "A Bibliography of Research" covering the years 1923-1925, issued by the Division of Engineering and Industrial Research in 1925.

Catalogue of scientific periodicals in Australian libraries. Edited by Ernest R. Pitt, Assistant Librarian, Public Library of Victoria, for the Council for Scientific and Industrial Research. 1208 p. Melbourne, Govt. Printer, 1930.

Fish meal in animal feeding, with bibliography. By John Ruel Manning, Bureau of Fisheries, U. S. Department of Commerce. 36 p. (Bureau of Fisheries, Document No. 1090 - Appendix XII to Report of the Commissioner of Fisheries for the fiscal year 1930)

A review and bibliography of the researches and present scientific knowledge - both American and foreign - in the field of the experimental feeding of fish meals and shellfish meals to laboratory and farm animals, including noncritical comments on the results of these researches.

Textiles and clothing; selected list of periodicals reporting research. Issued by Division of Textiles and Clothing, Bureau of Home Economics, U. S. Department of Agriculture. 11 p. (Home economics bibliography 6)

Textiles. A bibliography. Issued by Division of Textiles and clothing, Bureau of Home Economics, U. S. Department of Agriculture. 5 p.

The following bibliographies were prepared by students of the University of Wisconsin Library School as one of the requirements for the Diploma of the School. The bibliographies are typewritten and may be borrowed for copying.

The cold storage and refrigeration of food; a selected and annotated bibliography. By Ruth A. McDaniel. 13 p.

Economic and sociological research in agriculture; a selected bibliography. By Helen Elizabeth Burgess. 57 p.

Land utilization; a contribution to a bibliography. By Rea J. Steele. 18 p.

Large-scale cooperative marketing; its application to agriculture. A selected bibliography. By Marie Wigmore Barkman. 19 p.

Utilization of farm and forest waste products; a selected bibliography. By Dorothea Gleim McCulloch. 19 p.

PRINTED CARDS FOR STATE AGRICULTURAL EXPERIMENT STATION PUBLICATIONS

(The expressions of opinion which have thus far been received)

Favorable

"I should like to see the cards for State Experiment Station publications printed. It is true I do not use my old set much but if it were brought up to date I am sure the students would use it as they do not seem to like to use the Experiment Station Record or the Wilson Agricultural Index. I think it would be a great convenience to have the cards continued." (Miss Margaret Gallaway, Agricultural Librarian, University of Arkansas)

"This library would be very glad to be able to obtain printed cards for Experiment Station bulletins. I would not care to send special subscriptions for them, however, unless they should include all the bulletins. Personally, I believe the work is of enough value to justify a printing of the cards and I believe that the cataloguing could be assumed by certain libraries whose work would be recognized by the Library of Congress." (Mr. Charles H. Brown, Librarian, Iowa State College)

"I was interested in the article 'Cards for state experiment station publications' in 'Agricultural Library Notes'. I have often felt the need of a complete file of such cards but I would want to be assured that it would be complete and kept fairly up to date and I would also like to have some idea of the annual cost before recommending such a purchase by our organization." (Miss Zeliaette Troy, Librarian, Boyce Thompson Institute for Plant Research, Yonkers, N. Y.)

"I have read the article on cards for State Experiment Station publications. I am sure that this library would want to be a subscriber to these cards if printed by the Library of Congress. Even though the material is indexed in the Experiment Station Record and the Agricultural Index, I am firmly convinced that it should be listed in the card catalog also." (Miss Mary E. Marks, Librarian, University of Wyoming)

Unfavorable

"As you request expressions of opinion on the proposed printing of catalog cards for the rest of the Experiment Station publications not now so covered, allow me to report that we feel that such an extension of the card service would not be justified, for us at least. Before discontinuing subscription to the cards for U. S. Department of Agriculture publications, we had repeated and long discussions of the problem and have come gradually and rather sadly to the conclusion that the material is so thoroughly covered by the Experiment Station Record and the Agricultural Index that we are not justified in maintaining a separate card catalog of such material. We did maintain such a catalog for some years in three places on this campus but now have the Agricultural Index in five locations and the Experiment Station Record in five places on the campus and in a field station at the other end of the State. We could not in any case hope to cover so much ground with a card catalog. We are sorry not to cooperate if many other and perhaps wealthier libraries are desirous of extending the card service." (Mr. B. B. Wood, Librarian, Massachusetts Agricultural College)

The State experiment stations expended for agricultural research in the fiscal year 1930 about \$17,000,000, of which \$4,320,000 came from Federal sources, according to the last annual report of the Office of Experiment Stations, U. S. Department of Agriculture, which has just been published. Dr. Walter H. Evans, Acting Chief of the Office, calls attention to the fact that the Purnell Act reached its fixed maximum annual appropriation of \$60,000 to each State this year, making the total allotment to each State under the Hatch, Adams, and Purnell Acts, \$90,000. The report shows that the stations engaged during the year in more than 7,000 lines of research dealing with problems in agricultural production, distribution, marketing, and home making, strengthened and broadened their work, and developed cooperation, especially in investigations in agricultural economics, rural sociology, and home economics, which call for cooperation on a large scale. The Experiment Station Record reviewed during the year nearly 1,000 publications reporting the work of the stations.

"The total of the funds available for cooperative extension work from all sources during the fiscal year", according to the last report of the Director of Extension, U. S. Department of Agriculture, "was \$24,257,800, an increase of nearly \$1,340,000 over the previous year. Of this increase approximately \$274,000 was in Federal funds and \$1,066,000 in State and county funds. Of the total funds 38.1 per cent, or \$9,251,000, was contributed by the Federal Government; 28.6 per cent, or \$6,948,000 was from State appropriations to the agricultural colleges and other State agencies; and the remaining 33.3 per cent, or \$8,057,590, came from contributions by local organizations and individuals."

Dean W. H. Mumford of Illinois, in a recent article entitled "Extension Problems Needing Consideration" maintains that important as has been the wider discussion of farm facts among farm people, the great accomplishment of Smith-Lever extension work has been "the development of rural leadership which has come incidentally in the attempt to disseminate facts." The greatest need of the extension service he believes to be "a better-trained staff, which spends as much time in finding out what needs to be done as it does in attempting to get others to believe that they should do it." "I believe," he goes on to say, "that the next 10 years of extension work will be more exacting than the last 10 years. I believe that we should be more concerned in doing thoroughly well what we are doing than that we should try to reach the last man. I believe that we shall need to give more attention to the proper balancing of our programs, that we shall need to begin at once to develop methods that will stimulate, rather than stifle, individual thinking among the mass of farmers, for most certainly the farmer should look forward to the time when he can think through the most of his problems himself rather than feel impelled to call upon an expert to answer most of his questions."

"Bridging Deep Rivers," the Commencement address at the University of Wisconsin Library School, June 19, 1930, by Charles H. Brown, Librarian, Iowa State College, is printed in the Wisconsin Library Bulletin for October, 1930.

MISCELLANY

(Cont'd)

An editorial in The National Farm Journal for December says: "With regret rather than elation, we have to record that our misgivings as to the manufacture of paper from cornstalks were only too well-founded. Our folks may recall the circumstances. A pulp mill was built in Illinois, cornstalks collected, pulp made and sold, wide publicity secured, special newspaper editions printed on cornstalk paper, a capable and well-backed corporation did what could be done to establish a sound business. Eighteen months ago we mildly inquired, Can this be done at a profit? Is the thing commercially possible?-- and were soundly jumped on by an Illinois contemporary for even asking such a question. Alas, the answer appears to be No. The pulp could be produced, but not sold. Last May receivers were appointed, and the other day, we are told, they decided to close up. We say again, we are sorry. We were right, where we would rather have been wrong. After all, this latest failure in this field proves nothing, except that enough trees for paper-making are still to be found. And as long as trees remain to be cut, pulp from other sources will have hard sledding. That must end some day. The Illinois cornstalk mill may have been only a few years ahead of its time. We will not believe that the energetic work of Professor Sweeney of Ames, for example, is a total failure."

An interesting article entitled "Bibliotheca Thordarsoniana" by Dr. J. Christian Bay, Librarian of the John Crerar Library, is contained in vol. 23, part 1, 1929, of "The Papers of the Bibliographical Society of America", which has recently been published. It is a description of the library of original sources and monumental works covering the history and development of science and technology, which has been brought together by Mr. Chester H. Thordarson, Chief of the Thordarson Electric Company, Chicago. As the history of agriculture forms a very large chapter of the general history of mankind the collection contains a large number of early agricultural books which Dr. Bay describes in a delightful way.

The 14th annual report of the Central Library for Students in London has recently been issued. In March, 1930, this library, which is a co-operative lending library was reconstituted as the National Central Library and will receive an annual grant of £3000 from the National Exchequer. This grant is given to enable the Library (a) to establish a department for the supply of bibliographical information, (b) to compile a union catalogue of the books in the Outlier Libraries, and (c) to develop the Outlier Library system. There are now 98 Outlier Libraries associated with the National Central Library. The total stock of these libraries is no less than 4,150,000 volumes, all of which are available to readers in any part of Great Britain and Ireland through their local library.

A list of their "Books on Farming" has recently been issued by the Agricultural Department of Macmillan Company, 60 Fifth Avenue, New York City. It is an illustrated catalog of 40 pages and is intended for farmers, fruit and vegetable growers, foresters, livestock breeders, poultrymen, and all others interested in any phase of farm life.

MISCELLANY
(Cont'd)

At the joint session of the Agricultural History Society with the American Historical Association in Boston on December 30, the following papers are to be presented: Marshall P. Wilder, Patron of Agriculture, by Herbert A. Kellar, McCormick Library, Chicago; Cyrus Hall McCormick, by W. T. Hutchinson, University of Chicago; Gerrit Smith Miller, a Pioneer in the Cattle and Dairy Industry, by W. F. Galpin, Syracuse University.

The first number of volume I of "Agricultural History", the quarterly journal of the Agricultural History Society, has been out of print for several years. This number has now been reproduced and copies of it, as well as copies of later numbers, may be secured at \$1.00 each from the Agricultural History Society, Room 301, 1358 B Street, S. W., Washington, D. C.

An unusually interesting and informing article on University Presses is contained in the Survey Graphic for November 1, 1930. Another article on this subject is contained in the October, 1930, issue of Harper's Magazine in its advertising pages at the front. It deals particularly with the kind of books in which they specialize.

The South Dakota Free Library Commission's biennial report for the period ending June 30, 1930, contains the following paragraph on "Rural Programs on Reading": "At the request of the Extension Division of State College, the Director of the Free Library Commission has prepared a program on reading in the home which will be used in practically all of the home demonstration clubs in the state during the coming year. This program includes suggestions as to the value of reading, lists of books recommended for family reading and information regarding possible library facilities with special emphasis upon the Free Library Commission and the county library."

"Preservation of Leather Bookbindings", Leaflet No. 69 recently issued by the U. S. Department of Agriculture, will be especially helpful to libraries.

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ORNITHOLOGICAL LIBRARY OF THE LATE DR. HENRY NEHRLING

Through efforts of the Florida Audubon Society, the ornithological library of the late Dr. Henry Nehrling, internationally famous horticulturist and ornithologist, has been acquired for Rollins College. Dr. Edwin Osgood Grover, Director of the Rollins Library, states that the Nehrling collection provides Rollins with the finest collection of material on ornithology of any educational institution in the State, since the collection contains rare and valuable publications, including the works of Audubon and an almost complete set of the Auk. Dr. Nehrling was internationally known for his work as a horticulturist. He introduced into Florida nearly 400 beneficial plants, and for his work in this field he received in 1929 the Frank Myers gold medal, awarded by the Horticultural and Floricultural Society of the United States. (From The Publishers' Weekly, Oct. 11, 1930, p.1767)

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NOTES ON PERIODICALS

American elevator and grain trade. Chicago. With v. 49, no. 4, Oct. 15, 1930, combined with Grain dealers' journal to form Grain and feed journals consolidated.

Beekeepers' item. San Antonio, Texas. With v. 14, no. 6, June, 1930, combined with Dixie beekeeper to form Beekeepers' item and Dixie beekeeper.

Better flowers. Portland, Ore. Discontinued with v. 10, no. 6, July, 1930. Absorbed by Western homes and gardens.

Butter and cheese journal. Milwaukee, Wis. Discontinued with v. 21, no. 35, Aug. 27, 1930. Succeeded by National butter journal, Concentrated milk industries, and National cheese journal.

The California countryman. Berkeley, Calif. Discontinued with v. 16, no. 7, Apr. 1930.

Concentrated milk industries. Milwaukee, Wis. mo. f^o. il. v. 1, no. 1, Sept. 1930.

Dixie beekeeper. Waycross, Ga. Ceased with v. 11, no. 13, Mch. 1930. Combined June, 1930, with Beekeepers' item to form Beekeepers' item and Dixie beekeeper.

Grain and feed journals consolidated. Chicago, Ill. semi-mo. f^o. il. v. 65, no. 9, Nov. 12, 1930. Formed by the consolidation of American elevator and grain trade and Grain dealers' journal.

Grain dealers' journal. Chicago. With v. 65, no. 8, Oct. 22, 1930, combined with The American elevator and grain trade to form Grain and feed journals consolidated.

National butter journal. Milwaukee, Wis. mo. f^o. il. v. 21, no. 36, Sept. 1930. Continues the volume numbering of Butter and cheese journal which is succeeded by the three publications - National butter journal, Concentrated milk industries, and National cheese journal.

National cheese journal. Milwaukee, Wis. mo. f^o. il. v. 22, no. 1, Sept. 1930. Numbering begins with v. 22, no. 1. This periodical is one of the three publications that succeed Butter and cheese journal.

Northwest poultry journal. Salem, Ore. With v. 35, no. 9, Sept. 1930, combined with Pacific homestead to form Northwest poultry journal and Pacific homestead.

Pacific homestead. Salem, Ore. Discontinued with v. 57, no. 6, Aug. 1930. Consolidated with Northwest poultry journal.

NOTES ON PERIODICALS

(Cont'd)

Progressive farmer and farm woman. Carolinas-Virginia edition. Raleigh, N. C. Changed to Progressive farmer and southern ruralist, Carolinas-Virginia edition, with v. 45, no. 35, Sept. 1-14, 1930.

Progressive farmer and farm woman. Georgia-Alabama edition. Birmingham, Ala. Changed to Progressive farmer and southern ruralist, Georgia-Alabama edition, with v. 45, no. 35, Sept. 1-14, 1930.

Progressive farmer and farm woman. Kentucky-Tennessee edition. Louisville, Ky. Changed to Progressive farmer and southern ruralist, Kentucky-Tennessee edition, with v. 45, no. 35, Sept. 1-14, 1930.

Progressive farmer and farm woman. Mississippi Valley edition, Memphis, Tenn. Changed to Progressive farmer and southern ruralist, Mississippi Valley edition, with v. 45, no. 35, Sept. 1-14, 1930.

Progressive farmer and farm woman. Texas edition. Dallas, Tex. Changed to Progressive farmer and southern ruralist, Texas edition, with v. 45, no. 35, Sept. 1-14, 1930.

Southern ruralist. Atlanta, Ga. Combined, Sept. 1, 1930, with Progressive farmer and farm woman to form Progressive farmer and southern ruralist.

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OFFERS

The Library of the U. S. Department of Agriculture has the following publications for exchange.

Books

Billot, C. Annotations à la flore de France et d'Allemagne. 297 p. Haguonau, 1865.

Johnston, James F. W. Experimental agriculture. Edinburgh & London, 1849.

Malden, W. J. The conversion of arable land to pasture. 1898.

Periodicals

American journal of microscopy and popular science. V. 2, 1877.

Archive fur Naturgeschichte. Jahrg. 51, bd. 1, 1885.

Association of Land-Grant Colleges. Proceedings of the 35th annual convention held at New Orleans, La., Nov. 8-10, 1921. Contains a selected list of references on rural economics and sociology, 1913-1931.

Roczniki nauk rolniczych i lesnych (Polish agricultural and forestal annual). Organ Towarzystwa popierania polskiej nauki rolnictwa i lesnictwa. Tome 9 to 23, no. 1 inclusive (1923-1930)

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A History of Applied Entomology (Somewhat Anecdotal). By L. O. Howard. Smithsonian Miscellaneous Collections, vol. 84. 564 p. il. Washington, D. C., Smithsonian Institution; 1930.

This work is an important, authoritative, and interesting contribution to the history of science. The author, Dr. L. O. Howard, was formerly Chief of the Bureau of Entomology, U. S. Department of Agriculture. On his retirement from administrative work, in 1927 he was asked by the Department of Agriculture to prepare this history of applied entomology. It is divided into seven parts as follows: Part I. North America; Part II. Europe; Part III. Asia; Part IV. Africa; Part V. Australasia and the Pacific; Part VI. South and Central America and the West Indies; Part VII. Medical entomology; the international use of parasites; other matters. The book is written in a readable, interesting style and librarians who wish to familiarize themselves with entomological literature will find it a most valuable aid. It contains a large amount of biographical material regarding American and foreign writers on entomology and evaluates many of their works. Priority in the list of American writers cited apparently belongs to Colonel Landon Carter of Virginia, who published in the Transactions of the American Philosophical Society for 1771 a rather long paper entitled "Observations concerning the Fly Weevil, that Destroys the Wheat, with Some Useful Discoveries and Conclusions regarding the Propagation and Progress of that Pernicious Insect, and the Methods to be used to Prevent the Destruction of the Grain by It."

The preface to Doctor Howard's work, written by himself, reads as follows:

"In January, 1928, I wrote the following lines as a preface to the history I was about to begin: 'After studying insects nearly all my life and after having worked as an economic entomologist in the service of the Government for more than fifty years, I find that in an effortless way I have accumulated a lot of information which did not fit into anything I have published but which younger workers are constantly telling me ought to be put into print. There are hundreds of entomologists today where there was one fifty years ago, and in the soon-coming years there will be thousands, or I miss my guess. Why then should I drop off the stage before I have recorded certain experiences and impressions which, connected up with an historical account of the development of applied entomology, may be of much interest to many of the present younger workers as well as to thousands who are surely coming? I have no satisfactory answer to this question, and so I shall begin to write the pages that will follow.' It is now something more than two years since the above was written and while I have been deeply interested in gathering together what follows, I am not satisfied with it. It is bound to be criticised. It is not a history of the strict, modern documented type. But it will be useful and I think that most entomologists will thank the Smithsonian Institution for it."

The Place of Agriculture in American Life. By Wilson Gee, Professor of Rural Economics and Rural Sociology, University of Virginia. 217 p. New York, The Macmillan Company, 1930.

"In recent years, the problem of agriculture and country life has been prominently in the foreground of our national consciousness. The situation has been a complex, difficult and baffling one in many respects. Numbers of books have been written on the subject, but the most of them have dealt with special phases of the agricultural problem, often technically handled or have represented the development of the special bias or plan of solution of the particular author. To attempt within the pages of a small volume to present a comprehensive picture of American agriculture, its contribution to our national life, its history, its present problems and its future possibilities is, to put it mildly, a difficult undertaking. Yet there is a great need for just such a book, which will give to the lay reader, both urban and rural, in broad perspective and as interestingly as possible that sort of picture which will create a more sympathetic understanding of the present plight of the American farmer as a basis for the improvement of his status, and a keener recognition of the importance of maintaining a sound rural life as a strong element of present and future security in our national structure." (Author's preface)

Soil: Its Influence on the History of the United States. With special reference to migration and the scientific study of local history. By Archer Butler Hulbert, Director of the Stewart Commission on Western History of Colorado College. 227 p. il. New Haven, Yale University Press, 1930.

In this study the author "considers the influence of soil on migrations in America, touching as well on the part played by climatic, botanic, and hydrographic factors... The discussion comprises a survey of the Atlantic seaboard colonies, the migration to the Mississippi through the Cumberland Gap, and the great dispersal from the Mississippi basin to the Pacific coast."

Tercentenary of New England Agriculture, 1620-1930. Published by the Commissioners of Agriculture of the six New England States, with the cooperation of the New England state granges, the New England farm bureau federations, the New England colleges, experiment stations and extension service departments, the agricultural committee of New England Conference, as well as the many associations and organizations interested in farm activities and rural life improvement. 82 p. il. Springfield, Mass., Phelps Publishing Co., 1930.

The Farm Board. By E. A. Stokdyk and Charles H. West, Division of Agricultural Economics and Giannini Foundation of Agricultural Economics, University of California. 197 p. New York, The Macmillan Company, 1930.

The purpose of this book is "to set forth some of the problems facing agriculture, the scope of the Agricultural Marketing Act, and the possibilities and limitations of the Federal Farm Board in dealing with agricultural problems. It is written primarily for the layman rather than for the specialist in the field of agricultural economics. The agricultural economist will find little material in the book with which he is not already familiar, except the authors' point of view."

Holstein-Friesian History. A history of the introduction and development of the breed in America and throughout the world, the families of the breed, the personalities who have contributed to its establishment, and the organization that has fostered its growth. By Maurice Sheldon Prescott, Editor, and Frank Tilden Price, Business Manager, Holstein-Friesian World. 254 p. il. Lacona, N. Y., Holstein-Friesian World, 1930.

"The achievements of the Holstein-Friesian breed constitute a glorious chapter in the history of dairy progress. Here is the history of a breed whose beginnings are shrouded in the mists of antiquity, but whose fame has spread to exercise a dominant influence over the dairy herds of the entire globe. To attempt to tell the story within the limits of a single volume seems almost presumptuous. The work was undertaken in recognition of the present need for a comprehensive history of the Holstein-Friesian breed, and the importance of giving it attention while certain original sources of information were still available. Recognizing this need the Board of Directors of the Holstein-Friesian Association of America at its October meeting in 1929, formally requested the authors to undertake this work, at the same time placing all the facilities and archives of the Association at their disposal.... The aid of Prof. H. H. Wing (now President of the Holstein-Friesian Association of America) was enlisted in the preparation of the material dealing with the antiquity of the breed, and covering the period of the early importations to America, the founding of the first herd book organizations, and down to the formation and establishment of the Holstein-Friesian Association of America, together with a discussion of some of its early problems in the solution of which he personally assisted. Carrying on from there, the material presented covers briefly the significant developments in the nationalizing of the breed - the foundation of its present supremacy. The parent organization, the Holstein-Friesian Association of America, is covered historically both in narrative and statistical form, in an effort to provide a background that the student of the breed could secure otherwise only by the most voluminous research." (Preface)

Cyrus Hall McCormick. Seed-Time, 1809-1856. by William T. Hutchinson, Assistant Professor of History, The University of Chicago, with foreword by William E. Dodge, Professor of History, the University of Chicago. 493 p. il.

"One hundred harvests have passed since the summer of 1831, when Cyrus Hall McCormick invented a reaper in the Valley of Virginia. From that time until his death in 1884 his career closely concerned the westward march of the American farmer, the rise of a major industry in the United States, and the increased production of small grains everywhere. The enduring influence of his genius, both as an inventor and as a manufacturer, confirms the judgment of his contemporaries. By the eve of the Civil War they had seen him perfect his implement; prevail against the skepticism of the farmer; outdistance his competitors year after year, and gain large wealth from the profits of his ever growing factory. These formative years are the subject of the present volume. A sequel will complete the story of his life." (Author's preface)

Registry Books on Farm Animals. A Comparative Study. By Charles S. Plumb, Professor of Animal Husbandry, College of Agriculture, The Ohio State University. 306 p. il. Columbus, O., The Ohio State University Press, 1930.

The following extract is from the Foreword of the author: "For over twenty-five years the author has been interested in promoting, through the library of the Ohio State University, the collecting of what are known as herd, flock, stud, or registry books. These have been obtained from all over the world where organizations have been maintained in behalf of pure bred horses, cattle, sheep, goats, swine, and foxes. The University has taken an active interest in this subject because many of the sets obtained have been used in the study of blood lines of the breeds. Approximately 4150 separate copies of these volumes have found a place on the shelves of the library here, where they have been placed in a room reserved exclusively for this purpose. There are many complete sets, and numerous rare volumes, now very difficult to obtain. The first book of the kind was the English Stud Book, published in 1791 in London. The first registry book relative to cattle was published in 1822, a private venture in recording Shorthorns. There is no accurate record of the number of different registry books that have been started by breed associations or publishers but it certainly exceeds 250, for this University contains 255 sets of such. Without doubt there are yet others not included in this collection; nevertheless, the opinion prevails that this is the most complete library of the kind in the world." Short histories are given of many of the organizations included in the volume.

A Survey of Animal Breeding Research in the United States. A report prepared by J. A. Gamble and Associates in the Animal Husbandry Division, Bureau of Animal Industry, U. S. Department of Agriculture, for the National Research Council. 38 p. mimeog. Washington, D.C., National Research Council, 1930.

The report deals with projects and general status of animal breeding research at State and Federal Experiment Stations up to and during 1929.

Judging Poultry for Production. By James E. Rice, Professor of Poultry Husbandry, Goldan O. Hall, Assistant Professor of Poultry Husbandry and Dean R. Marble, Instructor in Poultry Husbandry, New York State College of Agriculture, Cornell University. 425 p. New York, John Wiley & Sons, 1930. (Poultry Science Series)

The aim of this book is "to help bring about a better knowledge of how to judge poultry for vitality and production and to develop a sympathetic understanding of the relationship between those whose principal interest is commercial poultry and egg production and those who are responsible for the development of fancy poultry."

NEW AMERICAN BOOKS

(Cont'd)

American Waterfowl. Their present situation and outlook for their future. By John C. Phillips and Frederick C. Lincoln. 312 p. il. New York, Houghton Mifflin Company, 1930.

"Discusses the ducks, geese, and swans of North America from the point of view of conservation, confining itself among the ducks to those that are widely hunted for sport. The subjects treated include breeding-areas, wintering-grounds, migration, drainage and irrigation, shooting as an adverse factor in the wild-fowl supply, natural enemies, oil pollution, poisons and diseases, food plants, and methods of hunting, and a final chapter deals with the outlook for conservation and proposes certain policies. There is also an appendix listing the game wild-fowl of North America with their ranges, the status of the several species, and a record of their body-weights, " (Publishers' announcement)

The Wild Grizzlies of Alaska. A story of the grizzly and big brown bears of Alaska, their habits, manners and characteristics, together with notes on mountain sheep and caribou, collected by the author for the United States Biological Survey. By John M. Holzworth. 417 p. il. New York, G. P. Putnam's Sons, 1930.

The Life of the Ant. By Maurice Maeterlinck. Translated by Bernard Miall. 282 p. New York, The John Day Co., 1930.

In this volume the author "opens the anthill to show us its exciting mysteries and ask searching questions to which as yet no answer can be found. Nearly every chapter ends on a note of philosophic inquiry, challenging the imagination, impelling the reader to compare the routine and destiny of the ant with those of man himself."

A State Park Anthology. Selected and edited by Herbert Evison, Executive Secretary, National Conference on State Parks. 200 p. Washington, D. C., National Conference on State Parks, 1930.

This volume incorporates the results of much of the study and practical experience of those responsible for the great advances made in the handling of state park problems. The material has been taken from printed publications, papers contributed at meetings on state parks, etc.

Elements of Plant Science. By Charles Joseph Chamberlain, Professor of Botany in the University of Chicago. 394 p. il. New York, McGraw-Hill Book Co., 1930.

An introduction to the study of plants.

The Green Leaf: The Major Activities of Plants in Sunlight. By D. T. MacDougal, Research Associate, Carnegie Institution of Washington. 142 p. il. New York, D. Appleton & Company, 1930. (Appleton New World of Science Series)

Essentially a layman's book, presenting the subject not only in its fundamental aspects but taking into account the most modern advances.

Crop Production. Principles and Practices. A handbook of information for the student of agriculture. By Harold D. Hughes, Professor of Farm Crops, and Edwin R. Henson, Assistant Professor of Farm Crops, Iowa State College. 816 p. il.

The authors have endeavored to bring together some of the more important data from information which has been accumulated during the last fifty years by scientific experimentalists in the agricultural experiment stations, the U. S. Department of Agriculture, and other research and educational agencies, and to make them available for ready reference - alike to the student in the classroom and the man on the farm.

Corn Production: Principles and Practices. A handbook of information for the student of agriculture. By Harold D. Hughes, Professor of Farm Crops, and Edwin R. Henson, Assistant Professor of Farm Crops, Iowa State College. 816 p. il. New York, The Macmillan Company, 1930.

While prepared primarily for the use of college students it is the belief of the authors that the handbook will prove equally as valuable to the mature student - the practical producer of crops, agricultural writers and others - as to students in schools and colleges.

Roses. By F. F. Rockwell. 88 p. il. New York, The Macmillan Company, 1930. (The Home Garden Handbooks)

Includes complete directions for rose care and culture, planting, propagation, and protection from insects and diseases, and suggests varieties for various parts of the country and for many special purposes. Like the other Home Garden Handbooks, it is not written for the expert, but for the home owner.

The Cactus Book. By Arthur D. Houghton, with a foreword by N. L. Britton. 147 p. New York, The Macmillan Company, 1930.

This book for amateurs includes discussion of the botany of cacti, their care and propagation, their use in rock-gardens and other outdoor use, and growing them indoors in miniature landscapes and in bowls. It has a tabulated list of all cactus species and varieties, giving their origin, special suitability for indoor culture, cultural requirements as to sun, soil and moisture, hardiness, habit of growth, and color of flower.

The author is president of the Cactus and Succulent Society of America.

The Herb Garden. By Frances A. Bardswell. 2d rev. ed. edited by E. T. Ellis. 173 p. London, A. & C. Black, Ltd., 1930.

In this revision the text has been altered as little as possible, most of the additions being in the form of brief footnotes. In the practical notes for references there is considerable alteration.

First Steps in Southern Forest Study. By Dairy P. Edgerton. 308 p. New York, Rand McNally & Co., 1930.

"Mississippi has by law included forestry in the list of subjects to be taught in its public schools. 'First steps in Southern forest study' has been adopted by the state as a textbook for use in carrying out this law. The book is equally suitable for use in other southern states." (Foreword).

A Systematic Source Book in Rural Sociology. Edited by Pitirim A. Sorokin, Professor of Sociology, Harvard University, Carle C. Zimmerman, Associate Professor of Sociology, University of Minnesota, and Charles J. Galpin, Chief, Division of Farm Population and Rural Life, U. S. Department of Agriculture. Vol. I. 645 p. Minneapolis, The University of Minnesota Press, 1930.

"The aims of the editors and publishers of this monumental work are (1) to make available to English-speaking students the most important writings on rural life and rural peoples in all languages from the earliest times to the present day; (2) so to systematize, edit, and supplement these writings as to make the work both a systematic treatise and a comprehensive and authoritative reference work in the field of rural sociology. In this period of experimental legislation and of widespread interest in and study of agricultural conditions, there is need in the training of American sociologists for a broad acquaintance with the rural sociological data and thought of Europe and Asia. The older nations and races have long struggled to understand the human factor in agriculture, and America's short experience will advantage from the wisdom of older historic ideas. Under the leadership of Dr. Charles J. Galpin, the United States Department of Agriculture and the University of Minnesota together undertook the task of bringing Old World experience and theory to the help of American students. The two organizations have shared the very considerable expense of the project and the results are presented to the public at practically the manufacturing cost of the publication... The first volume consists of two main divisions. Part I gives a concise summary of the history of rural sociological theory and outlines the main sociological characteristics of the rural world and the farmer-peasant class. The second part gives the details of the external and more formal characteristics of the sociological organization of rural life. The next two volumes will deal in detail with the inner, the institutional, the psychological, and the mental phases of rural organization and the demographic characteristics of rural and urban population."

Farm Children. An investigation of rural child life in selected areas of Iowa. By Bird T. Baldwin, late Director, Eva Abigail Fillmore, and Lora Hadley, Iowa Child Welfare Research Station. 337 p. il. New York, D. Appleton and Company, 1930.

This study was undertaken in the belief that it would be the means of establishing accurate methods of gathering data in rural communities and of discovering problems which, if investigated, should lead to a better understanding of rural child life.

Guiding Rural Boys and Girls. Flexible guidance programs for use by rural schools and related agencies. By O. Latham Hatcher, President, Southern Woman's Educational Alliance, Edited by Emery N. Ferriss, Professor of Rural Education, Cornell University. 326 p. New York, McGraw-Hill Book Company, 1930.

"This book has resulted from fifteen years of counseling experience and from six years of research concerned entirely with guidance problems of rural children. It builds upon the findings of the experience and the research in seeking to meet the problems of rural girls and boys in an understanding and thoroughly practical way." (Author's preface)

Teaching Agricultural Vocations. A manual for teachers in preparation and in service. By Rolland Maclaren Stewart, Professor of Rural Education, Cornell University, and Arthur Kendall Getman, Specialist in Agricultural Education, New York State Department of Education. 2d rev. ed. 377 p. New York, John Wiley & Sons, 1930.

Portions of certain chapters have been rewritten for this edition. A slight change has been made in Chapter VII in order to clarify certain paragraphs and Chapter X has been rewritten in part "in order to stress the importance of the long-time supervised practice program suggested in the earlier edition and which has become of great significance in the teaching of agriculture."

Economic History of the American People. By Ernest Ludlow Bogart, Professor of Economics, University of Illinois. 797 p. New York, Longmans, Green & Co., 1930.

In this volume the author has "endeavored to present an orderly and connected account which covers the life of the American people from the first discoveries to the present time."

American Economic Life and the Means of its Improvement. By Rexford Guy Tugwell, Thomas Munro and Roy E. Stryker. 3d rev. ed. 737 p. il. New York, Harcourt, Brace & Company, New York, 1930.

Follows the scheme of the first edition but is considerably altered. Some of the old material has been deleted and there are several chapters on entirely new subject matter.

King Cotton is Sick. By Claudius T. Murchison, Professor of Applied Economics, University of North Carolina. 187 p. Chapel Hill, N. C., The Univ. of N. C. Press, 1930.

An attempt to explain the causes of the present depression in the cotton textile industry, and proposing a method of correction.

South America. By Clarence F. Jones, Professor of Economic Geography, Clark University, 798 p. il. New York, Henry Holt & Company, 1930.

"South America, after centuries of slow political, economic and social evolution, stands on the threshold of a marked period of progress. Penetrated early by Spanish Conquistador and Portuguese slave-hunter, its major resources, in spite of an outflow of a stream of gold, silver, diamonds, sugar and hides of colonial days, have lain dormant, for the most part, until during the latter half of the past century. Spanish Conquistador and Portuguese slave-hunter were only the forerunners of a host of immigrants, commercial men, engineers, capital, machinery and railways, that are tapping the wealth of Andean recesses, tropical forests, and temperate plains and that are emphasizing the greater possibilities of this continent in the economic fabric of the world. Large manufacturing regions the world over look to South America for foodstuffs and raw industrial materials. In this expansion a more complete knowledge of the continent, its peoples, its many regions, resources, and lines of development become of increasing utility to business man, politician, and student." (Preface)

NEW FOREIGN BOOKS

The Future of Farming. By C. S. Orwin, 156 p. Oxford, Clarendon Press, 1930.

The author is Director of the Agricultural Economics Research Institute at Oxford, England.

Rural England as a Market. Some facts and figures about an area hitherto neglected by many general advertisers. 2d rev. ed. 35 p. London, The Farmer & Stock-Breeder, 1930.

This new edition contains additional information based on statistics published by the Ministry of Agriculture and the Ministry of Transport as recently as May, 1930.

Report of Conference on Development of Agricultural Cooperative Business Friday, May 30, 1930. 45 p. mimeog. Aberystwyth, Wales, Univ. College, 1930.

Issued primarily for the information of members of farmers' co-operative societies in Wales but it may be found of some interest to those who are concerned with the general development of agricultural cooperation.

What the Country-Women of the World are doing. Volume II. "Links of Friendship". 209 p. Edited by the Liaison Committee of Rural Women's Organizations, 26 Eccleston Street, London, 1930.

This volume contains, in addition to a number of interesting articles by various contributors, a list of the members of the Liaison Committee of Rural Women's Organizations, the history and aims of the committee, the report of the Vienna Conference, May 28-30, 1930, and the reports of country-women's associations in the various countries.

Organisation und Technik Danischer Molkereien. Von Dr. Ing. Hermann Herz, Kopenhagen. 130 p. Berlin, Verlag von Paul Parey, 1930.

Belted Galloways: A Romantic Breed. By Sir Ian Hamilton. 38 p. il. London, Vinton & Company, 1930.

The Practical Dog Book. With chapters on the authentic history of all varieties hitherto unpublished, and a veterinary guide and dosage section, and information on advertising and on exporting to all parts of the world. A comprehensive work dealing with the buying, selling, breeding, showing, care, and feeding of the dog. By Edward D. Ash, with an introduction by the Hon. Florence Amherst. 343 p. il. London, Simpkin Marshall, Ltd., 1930.

Handbook of the Netherlands East Indies, 1930. 424 p. il. Buitenzorg, Java, Dept. of Agric., Ind., and Commerce, 1930.

Considerable material relating to agrarian legislation, agriculture, horticulture, irrigation, drainage and flood control, cattle breeding, forestry, etc., in the Netherlands East Indies is included in this volume.

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS
of the U. S. Department of Agriculture
issued during September-November, 1930, exclusive of current
issues of serials.*

How the Federal Government is organized to profitably help industrial America. By Dr. A. F. Woods, Director of Scientific Work, before the Society of Industrial Engineers, Oct. 16, 1930.

Bureau of Agricultural Economics

Cost of production and effective utilization of sweet clover on corn-belt farms. A preliminary report. 25 p. (Issued by Division of farm management and costs)

Estimated number of apple trees by varieties and ages in commercial and farm orchards in Delaware, Jan. 1, 1928. 14 p. (Issued by Division of crop and livestock estimates in cooperation with Delaware agricultural experiment station)

Estimated number of apple trees by varieties and ages in commercial and farm orchards in Maryland, Jan. 1, 1928. 15 p. (Issued by Division of crop and livestock estimates)

Estimated number of apple trees by varieties and ages in commercial and farm orchards in Virginia, Jan. 1, 1928. 16 p. (issued by Division of crop and livestock estimates, in cooperation with Virginia State Department of agriculture)

Estimated number of apple trees by varieties and ages in commercial and farm orchards in West Virginia, Jan. 1, 1928. 16 p. (issued by Division of Crop and livestock estimates in cooperation with State Department of agriculture of West Virginia)

Marketing Colorado, Nebraska and Wyoming potatoes, summary of 1929-30 season. By Wendell Calhoun. 38 p. (Issued by Division of fruits and vegetables)

Marketing Florida citrus, summary of 1929-1930 season. By H. F. Wilson. 81 p. (Issued by Division of fruits and vegetables)

Marketing Idaho potatoes, 1929-30 season. Summary by L. C. Tate. 51 p. (Issued by Division of fruits and vegetables)

Marketing Maine potatoes, summary 1929-30 season By H. E. Rutland. 50 p. (Issued by Division of fruits and vegetables)

Marketing Michigan onions, summary of 1929-30 season. By R. H. Shoemaker. 25 p. (Issued by Division of fruits and vegetables)

* For a list of the principal series issued regularly, see v. 4, no. 102, p. 347.

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS

Bureau of Agricultural Economics (Cont'd)

Marketing of Michigan potatoes, summary of 1929-30 season. By R. H. Shoemaker. 31 p. (Issued by Division of fruits and vegetables)

Marketing Northwestern apples, summary of 1928-29 season. By R. H. Lamb and L. B. Gerry. 78 p. (Issued by Division of fruits and vegetables)

Marketing western New York cabbage, summary of 1929-30 season. By J. P. Klein and A. L. Thomas. 36 p. (Issued by Division of fruits and vegetables)

Marketing western New York potatoes, summary of 1929-30 season. By J. P. Klein and A. L. Thomas. 36 p. (Issued by Division of fruits and vegetables)

Marketing Wisconsin potatoes, summary of 1929-30 season. By C. Donald Schoolcraft. 33 p. (Issued by Division of fruits and vegetables)

State and federal publications dealing with the marketing of agricultural products. A list of references to the printed publications of state and federal departments of agriculture, markets, etc., issued since 1924. Comp. by Louise O. Bercau. (Issued by the library)

A preliminary supplement to Miscellaneous Circular 35 of the Department of Agriculture entitled "Bibliography on the marketing of agricultural products."

Summary of standard tobacco grades for U. S. type 21. 4 p. (Issued by Tobacco section)

Transportation of farm products. 5 p. (Issued by Division of economic information)

U. S. Standards for unshelled pecans, 1930. 4 p.

Office of Experiment Stations

Agricultural engineering research and the engineering experiment stations. By R. W. Trullinger. 10 p.

Presented before the Engineering section of the meeting of the Association of land-grant colleges and universities, Nov. 1930, at Washington, D. C.

References to published reports of research in home economics receiving federal support at the agricultural experiment stations, 1928-30. Comp. by Sybil L. Smith. 8 p.

Research projects in home economics receiving federal support at the agricultural experiment stations, 1930-31. Comp. by Sybil L. Smith. 23 p.

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS
(Cont'd)

Extension Service

More time for leisure in the farm home. By Madge J. Reese. 6 p.
Extension service circular 138. (Issued by Office of cooperative extension work)

Report of committees. Western States extension conference, Bozeman, Montana, Aug. 11-15, 1930. 20 p. Extension service circular 132. (Issued by Office of cooperative extension work)

Trends in extension work in home economics. By C. W. Warburton. 11 p.
Extension service circular 133. (Issued by Office of cooperative extension work)

Forest Service

Lake States forest experiment station. Report of the advisory committee for 1929. 37 p. (Issued by Lake States forest experiment station)

Bureau of Home Economics

Textiles and clothing; selected list of periodicals reporting research. 1 p. Home economics bibliography 6. (Issued by Division of textiles and clothing)

Textiles. A bibliography. 5 p. (Issued by Division of textiles and clothing)

Bureau of Plant Industry

Compost for vegetable production. By J. H. Beattie. 3 p. (Issued by Office of horticultural crops and diseases)

The lawn (adapted to the northern part of the United States). 9 p.
(Issued by Office of forage crops and diseases)

Preliminary report on the transportation of pears from the Pacific northwest, 1928 and 1929. 32 p. (Issued by Office of horticultural crops and diseases)

Office of Publications

The policy and functions of the Journal of Agricultural Research in relation to the experiment station. By M. C. Merrill, Chief of Publications. 20 p.

Address delivered before the Experiment Station Section of the Association of Land-Grant Colleges and Universities, Washington, Nov. 17, 1930.





